

# WIRELESS WEEKLY

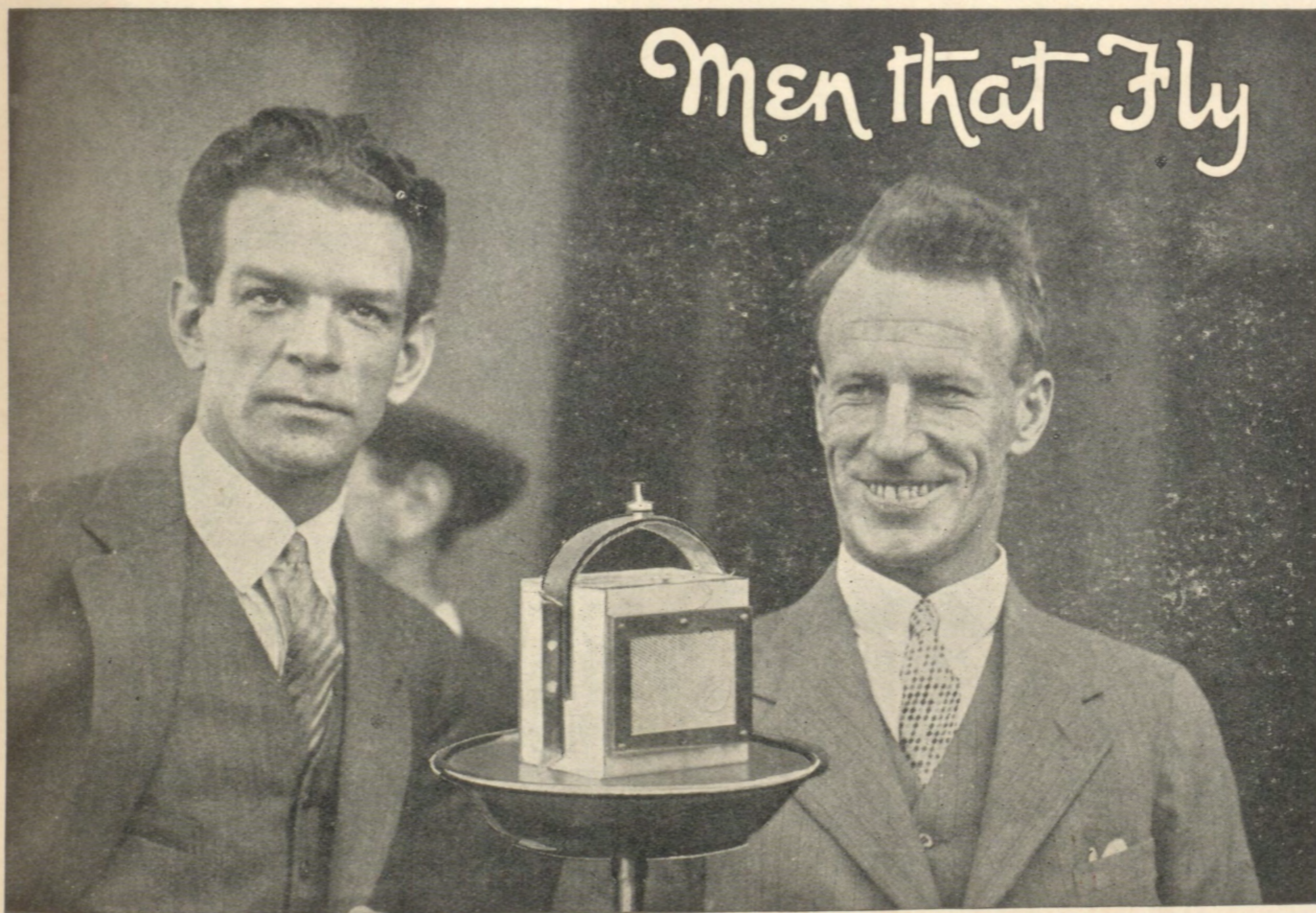
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SYDNEY.

Broadcast Programmes a Week in advance

VOLUME 12

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

NUMBER 9



Friday, June 22, 1928 Price Threepence



# *Striking Realism!*

## **PHILIPS LOUD SPEAKERS**

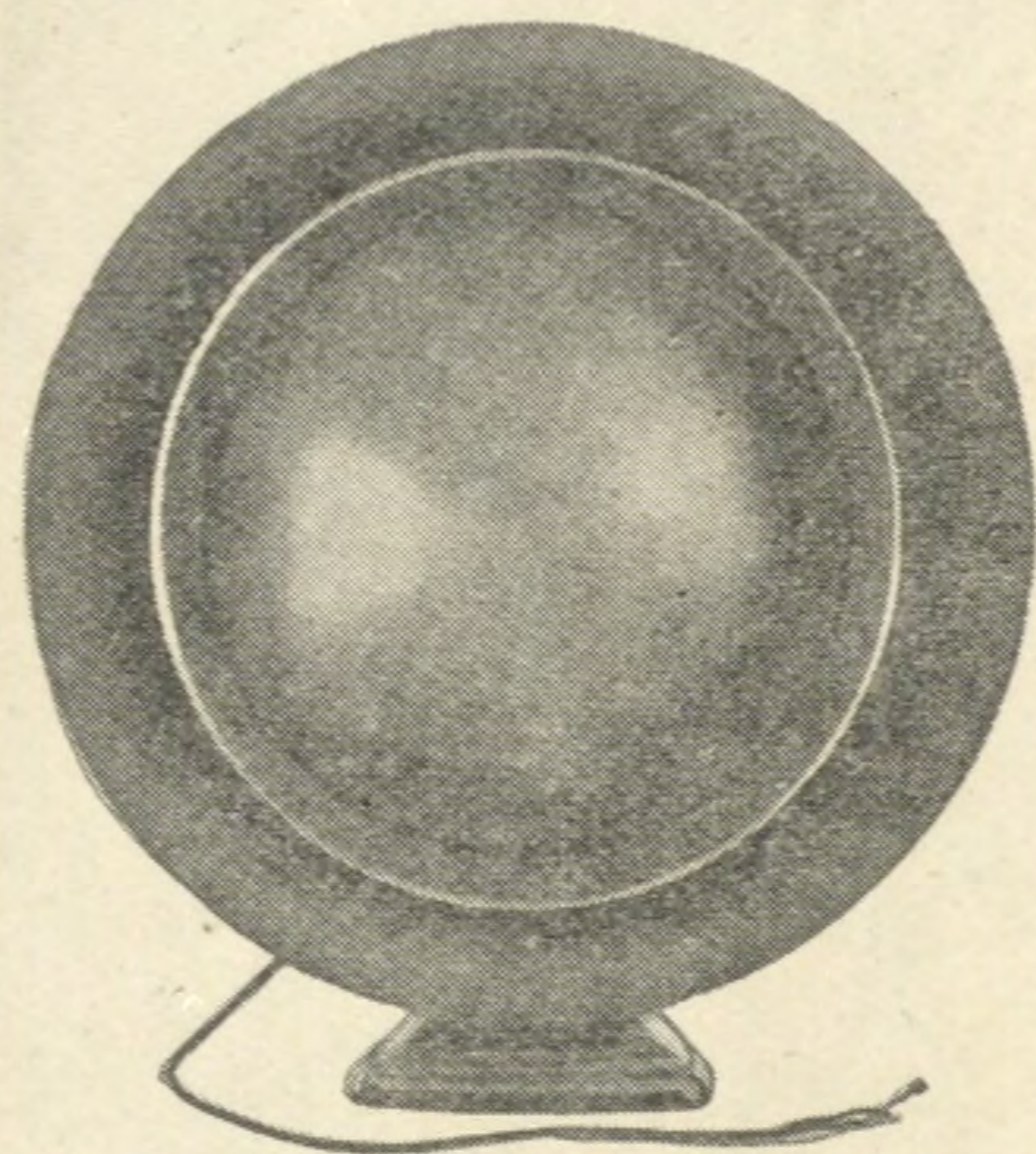
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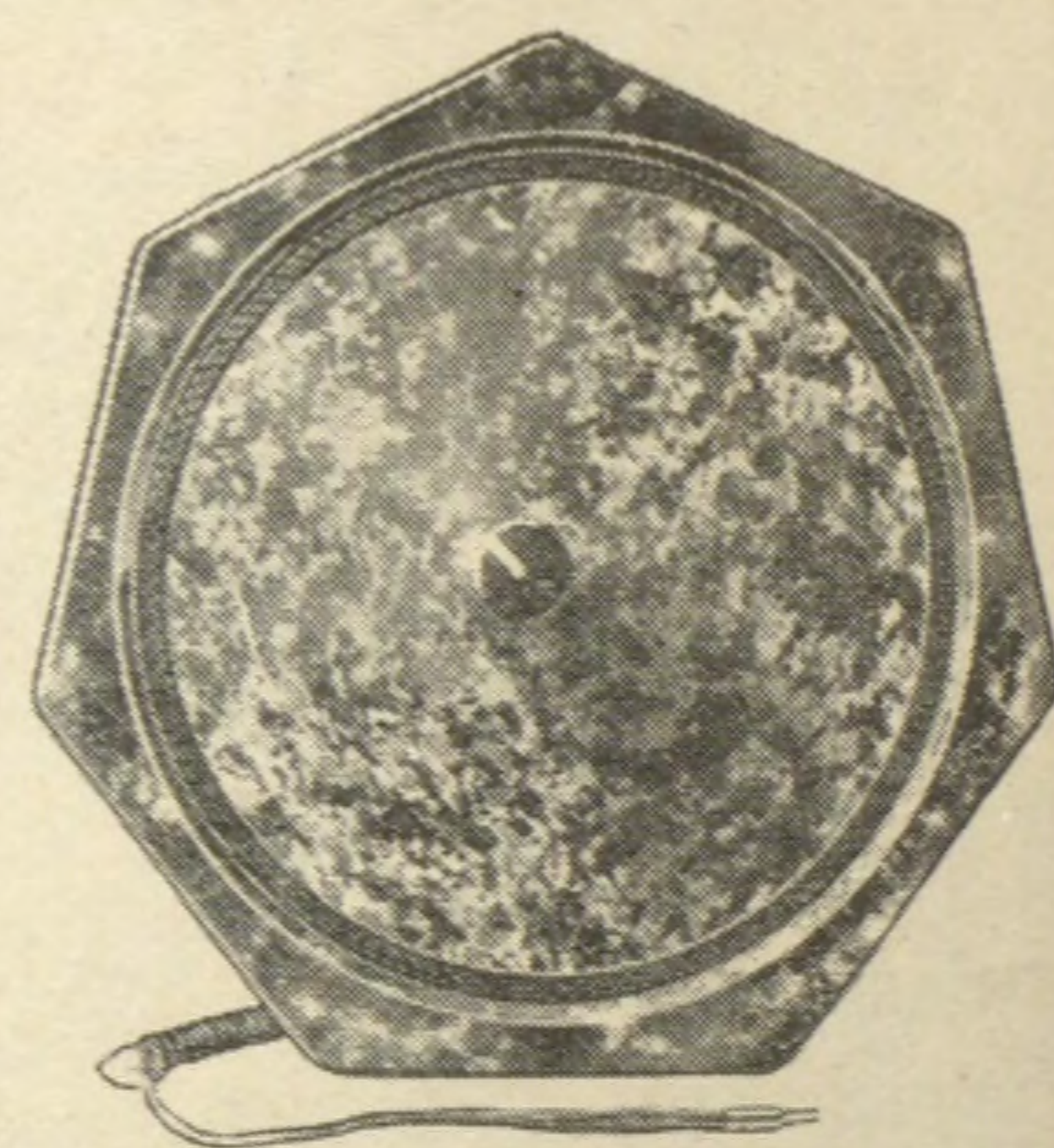
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# **PHILIPS**

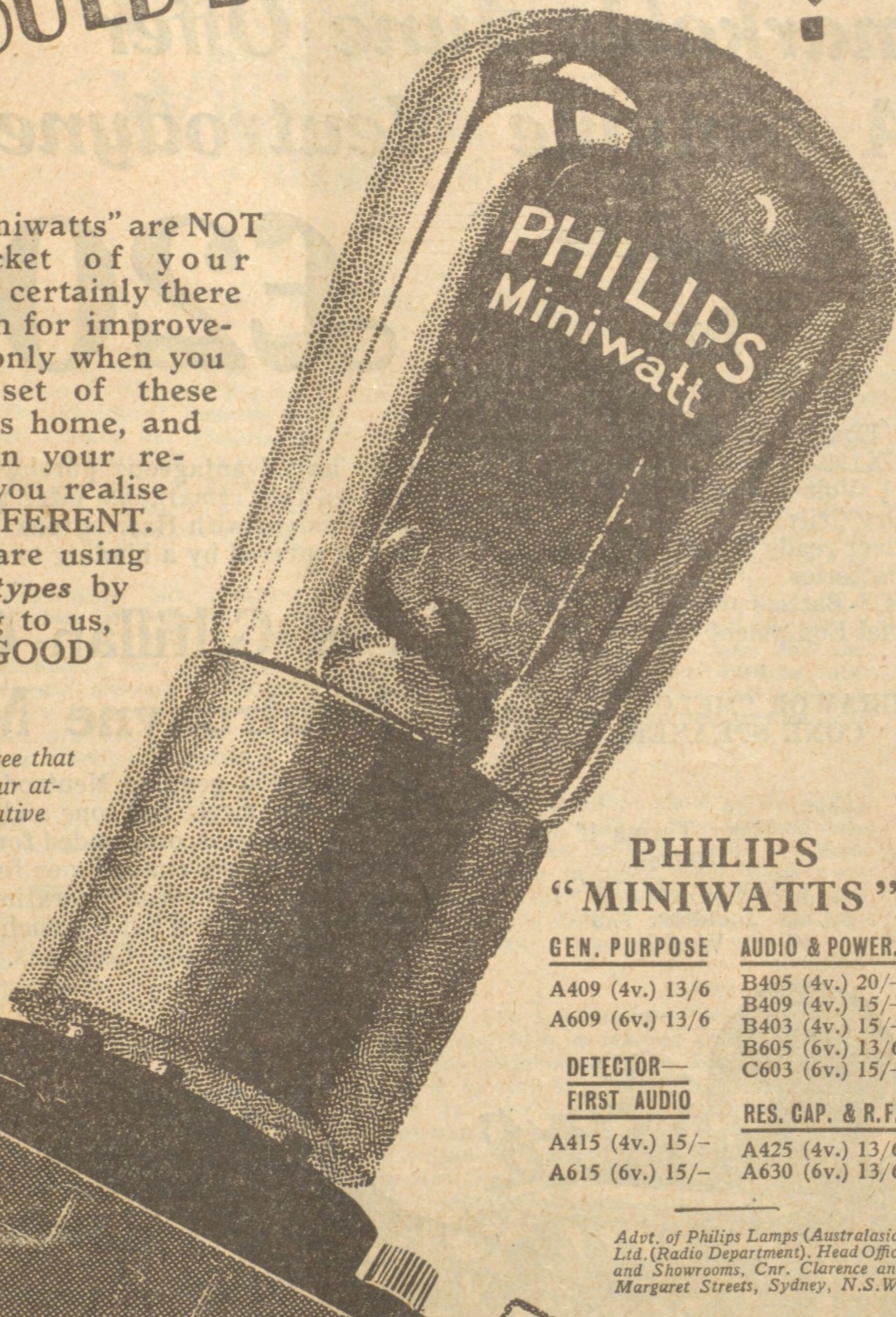
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Equipment includes:

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# WIRELESS WEEKLY

VOL. 12. No. 9.

FRIDAY, 22nd JUNE, 1928.

## *Licence Totals in Victoria*

THE upward trend of the curve of listeners' licences in Victoria has had a check. The continued increase of licences which has marked out Victoria so strikingly since 3LO commenced its service in 1924, was so far in excess of figures in other states that it was not surprising that some sign of stabilisation should eventually come into evidence.

Some critics apparently but meagrely informed of the history of broadcasting in Australia seem to see, in a temporary decline of the advancing licence totals, a slackening of listeners' interest in the services. They even go so far as to say that the licence figures are tantamount to an expression of dissatisfaction by listeners.

Such criticism is far from being an explanation of the fact that the licence figures were two hundred less in May than in April. If the total were only a small number, then the 200 might be worth regarding seriously, but when we remember that the grand total for Victoria is 136,481 and for the rest of the Commonwealth 263,340 there is not much ground for feeling pessimistic.

The number of licences cannot go on increasing indefinitely. There must come a time when all the prospective listeners have their licences. One cannot expect that every single household will have a wireless set, at all events for some time to come, but when every second or third house has one we must in reason say that the maximum is being reached. And that is what has occurred in Victoria. The official figures given out some time ago showed that there was a licence held by every third household.

One must conclude, therefore, that the phenomenal totals for licences in Victoria, in comparison with totals in other states of the Commonwealth and in other

countries, must sooner or later show a decline. One fact alone should convince readers of this conclusion, the official figures always show the net totals after deductions have been made for the people who have not completed their payments or have given up listening in. There are often good reasons for abstaining from listening, such as when a listener leaves the State or suffers some setback financially. It was mentioned at the Royal Commission last year by witnesses that a large number of listeners drop out in this way and the absence of their licences from the total does not in any way reflect any criticism of or dissatisfaction with the services. It was simply unavoidable.

The figures for May show an unusually large number of such deductions, and consequently the net total is about two hundred less than in April. But there were actually 3018 new listeners licensed during May. That is definite proof that the services are still attracting new patrons.

These two explanations, the fact that saturation must be reached sooner or later, and the deductions from the totals occasioned by the listeners who, unavoidably, give up their licences, will serve to show that there is no ground for saying that the broadcasting services were less appreciated in May than in April. But there is reason to expect that the net totals will continue to increase during the next few months. Activity amongst radio traders in country districts of Victoria has been noticed lately, and there are reports of many sales of listening sets. That means new patrons and new licences. Thus we may expect to find the Victorian licence figures continuing in the proud position of amounting to more than the figures for all of the other states together.



# Catching Up with the Wireless World.

By R. E. CORDER.



AUSTRALIAN LISTENERS should be able to receive quite well New Zealand's latest station, 2YA, Wellington. This station is rated at 5 k.w., at a conservative system of rating, and is claimed to be the second largest broadcasting station in the British Empire by the manager of the Radio Broadcasting Company of New Zealand, Ltd., of 200 Gloucester Street, Christchurch.

STATION 2YA is erected on the top of one of the high hills surrounding the Capital City (it does not like the name of "Windy City"). The studio, however, is in the centre of the city, and a very fine suite of rooms the "studio" is. Private land-lines stretch from the studio away up to the top of Mount Victoria.

EVERY AFTERNOON and evening, excepting Wednesdays, 2YA will be found "on the air." Each of the four stations servicing New Zealand has one silent night a week (excepting 4YA, which has two), these being:—Station 1YA, Auckland, 5 k.w., 333 metres, silent day, Mondays; Station 2YA, Wellington, 5k.w., 420 metres, Wednesdays; Station 3YA, Christchurch, 5 k.w., 306 metres, Tuesdays; Station 4YA, Dunedin, about 25 k.w., 463 metres, Mondays and Wednesdays.

C. FRANCIS JENKINS was one of the first experimenters to perfect and commercialise a radio-picture transmitter and receiver. His device, simple and ingenious, is well known to most experimenters by repute, if not by examination. In the last twelve months he has advanced far enough along this line of research to produce a simple standardised piece of apparatus for installation on ships which supplies daily an ocean weather map. The advantages of this means of obtaining meteorological information have been quickly realised, and the apparatus is now installed on hundreds of ships of the American or mercantile marine. A description of the apparatus, supplied by Mr. Jenkins, appears in the June "RADIO," now on sale.

A FRENCH official Decree has been issued reducing from 15 to 10 centimes per word, (minimum charge 1 franc) the ship tax on radiograms as regards steamers regularly engaged in service between England and France, and registered in a Channel or North Sea Port.

## Station PCJJ on the Air again with a New Schedule

*There are many who will remember the extraordinary Broadcasting feat accomplished by Station PCJJ, when the London programme was broadcasted throughout the world.*

*Since then many tests have been carried out. Until recently the wave length of PCJJ was 30.2, but it has been realised that the new wave of 31.4 metres has many advantages, and the commercial interference is not nearly so marked.*

*A new schedule of transmission times which will be adhered to until further notice is as follows:—*

*Every Wednesday, from 2 a.m. till 6 a.m. (our time).*

*Every Wednesday, from 9 a.m. till 12 noon (our time).*

*Every Friday, from 2 a.m. till 6 a.m. (our time).*

*Every Saturday, from 2 p.m. till 5 p.m. (our time).*

*Every Saturday, from midnight, till 3 a.m. Sunday.*

*Philips Lamps (Australasia), Ltd., would appreciate detailed reports on any of these transmissions.*

*The Saturday Programme from 2 p.m. till 5 p.m. is especially arranged for Australian listeners. Reports on this transmission will be particularly appreciated.*

EXTRACT FROM a series of articles, by Major J. C. Fitzmaurice, one of the pilots of the "Bremen," on the first east-to-west trans-atlantic aeroplane flight. The experiences of the pilots, he says, have led him to the conclusion that, for an undertaking of this kind, wireless is absolutely essential.

THE FLIGHT of the Bremen was no mere stunt. It was a carefully-prepared scientific endeavor, in which all possible dangers or causes of failure were written down, considered from every possible angle, and the best possible precautions adopted to eliminate or reduce them to the lowest point of danger. The question of wireless received serious consideration, but it was decided that an efficient and useful wireless set would weigh approximately 180-lb., and it was decided that this weight of benzol would be better.

"THIS WAS the one weak point in the organisation of the flight. As we now realise, had we had a wireless set on board, upon our estimated arrival in the neighborhood of Newfoundland, we could have been given almost our exact position by direction-finding stations along the coast, have been informed of the precise direction and velocity of the wind over the sea, and would have made New York easily, with our objective accomplished. We consider wireless absolutely essential for all future undertakings of this nature."

A RECENT AMERICAN plebiscite resulted in Beethoven heading the list of "Favorite Composers." Those musicians who deride the taste of radio audiences should ponder this fact. "There is an irritating air of superiority on the part of many musicians and amateurs which repels a layman. The radio is offsetting this attitude and awakening a sense of friendliness for good music," says a well-known musical authority. "Will radio listeners become flesh-and-blood audiences OF THE FUTURE?" asks an American writer. "We cannot but admit that broadcasting has profoundly affected the musical situation. The radio has doubled our music-loving population."



# How 2BL Broadcast the Good News

*It was the organisation behind the station which enabled 2BL to "scoop" all stations and newspapers in Australia in conveying the news of the Pacific fliers*

PROBABLY never before in history has wireless played such an important part in the success of a great undertaking, as in the case of the flight of Captain Kingsford Smith and his gallant companions in the Southern Cross; and never before has broadcasting performed a greater public service than it did during the flight from Hawaii to Sydney.

2BL was the first station in Australia to announce that the 'plane had arrived at Hawaii—the announcement being made at 8.10, Sydney time, on Friday morning, and from the moment the Southern Cross left Barking Sands, the Australian public was kept constantly in touch with news of the flight. Right up till 10 p.m. on Monday 2BL, working in conjunction with "Sun" Newspapers, Ltd., supplied the public with detailed information as to the progress of the flight at hourly intervals. At 10 p.m. Mr. Raymond Allsop, 2BL's chief engineer, stood by his receiving set, listening in direct to the wireless messages from the Southern Cross, which were repeated verbatim from the studio.

On Monday night, at 10.25, 2BL made history by re-broadcasting the now famous message from the Southern Cross, stating that its present position was over the Phoenix Group of islands—the distance being approximately 2400 miles from Sydney.

Many thousands of listeners throughout the Commonwealth heard the buzz of the signals, which were in Morse Code, and which were interpreted by the announcer for listeners' edification. This was the first occasion in the history of aviation and radio that a message had been received from a 'plane at so great a distance—and re-broadcast.

Up till 10.30, the messages from the Southern Cross were received at regular intervals, and it was not until twelve o'clock, midnight, that the messages became more frequent, when the Southern Cross reported storms ahead. Realising the importance of these messages, and how the world was eagerly waiting for them, 2BL's engineers remained up all night,



*Left to right: Capt. Harry Lyon (navigator), Jim Warner (wireless operator), Mr. E. M. Lawton (U.S. Consul), and Basil Kirke (2BL announcer).*

keeping in touch with the Southern Cross.

As the 'plane approached the storm, flying conditions became exceedingly dangerous. 2BL's engineer, and his assistant, both being experienced wireless operators, soon realised that the 'plane was passing through a terrific storm, and that those on board were fully aware of the perils ahead of them.

From one o'clock until seven a.m. the wireless operator on the Southern Cross remained at his post, and when not broadcasting messages, kept his transmitting key pressed down, meaning that 2BL's engineers would receive just one continuous buzz, signifying that all was well.

During this storm, there were frequent occasions when the 'plane was being so badly buffeted by the gale, that the operator could not transmit effectively, frequently having to repeat words and sentences that were badly mutilated. Consequently, it was surmised that the 'plane was being so badly tossed by the gale, that the operator could only, under the greatest difficulty, transmit messages. This conclusion has since been confirmed by the fliers themselves.

At 8.5 on Tuesday morning, 2BL broadcast a complete resume of all the information received from the Southern Cross during the long vigil of the night. Further information

was broadcast at 10.50 a.m., and then at half hourly intervals. At 12.15 it was announced that the Southern Cross had been sighted in Fiji, and the message which was broadcast was confirmed at 12.44.

At 1.30, one of 2BL's announcers, who had spent many years in Fiji, painted a graphic word picture of the Fiji group, Suva, and the Albert Park landing ground, enabling listeners to visualise exactly what was transpiring. He also suggested that immediately the 'plane landed the aviators would be conducted by the Mayor to the "Grand Pacific" Hotel, where they would enjoy a welcome bath, a shave, and perhaps a much needed refresher.

Perhaps there were no more interested listeners than the relatives of the fliers. Mrs. Ulm, wife of Charles Ulm, said, "I am certain I would not have been able to stand the strain, but for radio, and I cannot do without this wonderful thing now, so much has it done for me and for mine."

Captain Kingsford Smith's parents were also keen listeners, not only during the long flight, but also at the last stage, which we have yet to describe, and which was nearly disastrous, as will be seen.

On Friday afternoon—four minutes after the Southern Cross had taken off from Naselai Beach—Suva, 2BL announced that the 'plane had left on the last stage of the flight to Australia.



It was not until three o'clock, Sydney time, that 2BL's engineer was able to receive and read the signals from the Southern Cross on account of electric leakage interfering with the reception at Roseville. This interference disappeared, and reception became perfect. Messages were then continuously received until the 'plane landed at Brisbane on Saturday morning.

During this long flight, the actual signals and the buzz transmitted from the 'plane, were placed on the air and interpreted so that people in Australia would be advised of the progress of the flight.

At 5.45 p.m. Friday afternoon, 2BL made ready for an all night vigil. On Thursday afternoon, Mr. H. G. Horner, acting manager of 2BL, had suggested that it would be a splendid scheme if 2BL broadcast the Morse signals from the 'plane during its flight. In this project he was assisted by his staff, and their joint efforts resulted in one of the most successful broadcasts that has ever taken place.

Messages were received from the Southern Cross, and the story told in such a vivid and graphic manner that thousands of listeners have written to the station in appreciation, stating that the word picture was so perfect, that they had no difficulty in visualising the flight.

Even during those dramatic parts of the journey when the Southern Cross was buffeted and battered by the tempestuous forces of the gale, Lieut. Warner kept constantly at the Morse key, and never a rest had he during the first ten and a half hours of the flight.

The long watch was maintained right through the night—eighteen and a half hours continuous broadcasting, of which Mr. Kirke was announcing for ten hours.

During the night listeners were invited to visit Mr. Alisop's residence, where they could actually see all that was going on. The admission fee was £2/2/, which amount was to be added to the fund which was being raised for the Airmen. Before long, quite a number had arrived, and many others had sent cheques, whilst still more had promised them for the morning, and fifteen minutes after the commencement of the fund, about £50 had been raised from local listeners only.

The buzz of the Morse signal seemed sometimes to fade away altogether, but the announcer explained this phenomenon so that listeners need not worry that something had happened to the 'plane. It was caused, he said, through the swing of the aerial, which had to be tailed behind the aeroplane. This swinging naturally altered the wave length of the

aerial, and as a consequence signals sometimes faded for a few seconds, but would soon swing back to normal again.

Listeners who also kept the lonely vigil had the opportunity of hearing messages transmitted to Eva Novak and family via an American amateur, and also heard the 'plane calling Australia, but later the operator on board the Southern Cross advised that one of the batteries in his receiver was very low, and he was unable to pick up any signals from Australian amateurs.

During one part of the early morning, Warner advised that he could not transmit for some little while, owing to a storm they had encountered. The 'plane was passing through one of the worst storms they had experienced.

Among the many interested listeners at the experimental station was Mrs. Ulm, the wife of the aviator, who sat listening to the almost sad buzz of the Morse as it dotted out its story of the 'plane in flight.

Captain Kingsford Smith's aged parents were also listening in, and expressed their sincere appreciation and heart-felt thanks for the great service rendered by 2BL.

Early in the morning, 2BL's Acting Manager, Mr. H. G. Horner, interviewed Mr. Kingsford Smith, senior, and Captain Kingsford Smith's brother, by telephone—the whole of the conversation being broadcast, so adding another achievement to the already remarkable record.

At approximately eight o'clock, although tired, weary and almost on the point of exhaustion, Mrs. Ulm spoke to the people of Australia, thanking them for the many kind messages she had received.

A little after nine o'clock, when the aviators were sighted in Australia—as a most fitting finale to the long journey, and to 2BL's magnificent achievement, at Mr. Horner's request—His Excellency, Sir Dudley de Chair delivered a charming address, congratulating the aviators on their success, the address being broadcast as it was received over the 'phone.

As the 'plane was sighted in Brisbane, the story of the landing was relayed by land-line to 2BL, the announcer of 4QG telling the story of the historic landing.

The actual time that 2BL was continuously broadcasting was from 5.45 p.m., Friday, until 10.24 a.m., Saturday, which constituted a record for continuous broadcasting, this is known to be a record for Australia, and it is believed to have constituted a world record.

During the transmission of the flight, by means of an Admiralty Chart, 2BL were able to tell the exact position of the Southern Cross from the bearings given by Warner, and were able to calculate the exact distance of the 'plane from Australia, and estimate the speed at which it was travelling.

This made the story of the flight much more interesting, especially as it was seen that the storm drove the 'plane several hundred miles out of the course, as the aviators had to dodge heavy cloud banks.

One enthusiastic listener 'phoned the station at 1 a.m. and asked Uncle Bas to give a talk on the South Sea Islands, and he chose for his subject, "Kava," a Fijian native drink, which to the uninitiated tastes like a foul concoction of soap, water and pepper, and included in the talk were many interesting customs of the natives of Fiji.

2FC carried out the transmissions of the landing at Mascot Aerodrome, where approximately half a million people had congregated. Mr. Kirke, who had been asked to carry out the description, requested listeners to 'phone the station if they saw the 'plane approaching, and a few minutes later, word was received that the Southern Cross was passing over Manly, with the escort. This transmission was split and several of Australia's "A" Class stations were re-broadcasting the description.

Speeches were broadcast by the famous Airmen when they landed, and they were given hearty cheers by the thousands that had turned out to see them.

Both 2FC and 2BL announced that at 9.45 the airmen would leave their warm fires in order to satisfy public demand by saying a few words from the Manresa Hall, North Sydney. It is mainly owing to the efforts of Mr. Horner that listeners were able to actually hear the gallant airmen speak from 2BL.

The humorist of the party, Captain Lyon, the Navigator, when replying to Captain Kingsford Smith, who had asked him to be navigator for the flight, said, "Look here—you go and see the Chief Doctor at the Bug Hut" (meaning the Lunatic Asylum). He concluded by saying that he would never attempt such a journey with any other pilots but the two heroes of the flight.

The landing of the Pacific Fliers was transmitted, not only across Australasia, but right around the world. 2FC opened on short waves (28.5 metres), and Mr. Basil Kirke's descriptions were picked up by 5SW England, WGY Schenectady, and WMAK Buffalo, all of which have re-broadcast 2FC on previous occasions.





## 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.

### ONE VALVE FILADYNE.

Dear Sir,—I have been a consistent reader of your magazine, and have noticed from time to time letters regarding different performances of "fans" receivers.

When I saw Mr. G. E. Sharman's letter about the "Extraordinary One," which he reckons is the best set that can be made, I thought it was time to let you see my log on a one valve "Filadyne," which set was described in "Wireless Weekly." I use a 70-ft. aerial, and an Osram DE 2 volt valve (H.F.) or DE 2-L.F. valve, and have received the following stations, and can pick them up any time during the night after 6 o'clock:

2FC, 2BL, 2GB, 3UZ, 3LO, 3AR, 4QG, 2UE, 2KY, 5CL, 1YA, 2YA, 3YA, and after 11.30 p.m. I can get JOAK, JOCK, JOIK, whilst the following stations have also been received on various nights:—5DN, 5KA, 3BY, 3DB, 2UW, 4CG, 4GR, and KZRM.

This makes a total of twenty-four stations on a one valve set. I might add that I get 2FC and 2BL at 3.30 p.m.

I have confirmations of nearly all these stations—and each station is clear enough to be understood except the Japanese stations, as I do not understand Japanese.

I think I may venture to call this little set the "Champion" of one-valve receivers, and would recommend it to anyone. It costs about 37/6 to build.

2BL, 2FC, 3LO, and 4QG work a hefty loud-speaker which can easily be heard all over a 20-ft. by 12-ft. room.

Yours, etc.,

E. J. LAKE.

Kilcoy, Q.

### "A" CLASS STATIONS.

Dear Sir,—Referring to the programmes of the various "A" class stations, I beg to submit the following few remarks:

It is considered most important that every station should strictly adhere to their advertised programme as nearly as possible.

When unavoidably departing from the programme, a short explanation should be made as to whether the item is struck out or will come on

later, this statement to be made when the item is due.

The advertised time for the various items should also be rigidly adhered to. I am sorry to say that this is not done at present and serious annoyance and inconvenience is caused to thousands of listeners.

Saturday nights are sport nights, especially for country listeners, and the Stadium events from 2BL and 3LO are appreciated, but at least one station might make a full night of it.

#### RACE RESULTS!

THE FINAL RESULTS of the Racing Controversy appears hereunder. It will be noticed that while the votes for deletion of Racing Broadcasts from the programmes and those for intermediate transmissions remain much the same, 2FC's votes have increased on the figures earlier published.

Number of Votes Received .....	332
In Favor of Broadcasting Racing Descriptions .....	303
In Favor of 2FC .....	227
In Favor of 2BL .....	45
In Favor of intermediate Transmissions from both Stations ..	31
In Favor of Deletion of these Transmissions .....	29

The half-hour broadcasting of motor cycle events as made by 4QG are not considered interesting enough. The whole programme for the evening is required to make it interesting.

A great deal of interest is taken in lectures and lecturettes, and very often friends interested in the various subjects are invited to listen in, and consequently there is great disappointment if the programme is altered.

News items, weather news, and special news items, missing friends, and urgent messages should have a special standing time on the programme, and should be rigidly adhered to. This does not mean that an urgent message should not be broadcast immediately it is received, but it should be again broadcast at the next advertised time for such matter.

We are not interested in 6WF, but it is considered that the other "A" class stations should arrange so that each one had a different class of programme for the same night.

Yours, etc.,

E. W. EVERETT.

Gayndah, Q.

### RADIO AND LIGHTNING.

Dear Sir,—In the 8th June issue of "Wireless Weekly" I noticed an article entitled "Radio Sets Damaged by Lightning," and would like to add my experiences to those of Mr. Hooker. My aerial was struck by lightning about four months ago during a heavy storm. The lightning conductor was blown to pieces, but no damage done to my set, which is a five valve receiver. After the storm passed over, I tuned in, but was unable to get a sound, and thought my set was damaged, until I disconnected the aerial from the lightning conductor, when reception was as good as ever. I found the two pieces of steel burnt a bronze color, and the piece of paper in between these two bars burnt out almost. On examination of the aerial I found two burns of a bluish color, about 12 feet long and a distance of 8 feet from one another. Next, I examined the insulators and found both cracked near the lead-in end. My aerial is 90 feet long, though I use two other aeriels (30 feet and 40 feet) for night reception, and the large one for daylight reception, though on all aeriels I can receive oversea stations on five valves. On full loud speaker strength I can receive JOCK, JOAK, whilst mild speaker strength is recorded by JOBK and JOCK, and, faintly, I can receive another Japanese station on 320 metres. The four "YA" stations come in full loud speaker strength. I have three earth plates leading to my receiver, each consisting of a piece of galvanised iron, with the connections well soldered, and the spots are kept well watered every evening, as I have constructed a funnel by which I pour the water down, each plate being fixed with one of these. Increasing the earth, increases volume, so I find, but more important still, clarity is improved greatly. Quite a lot of listeners pay little or no attention to their earth, though, in my opinion, this is one of the main points of good reception.

Yours, etc.,

J. W. McNAMARA.

Barellan.



# The Long and Short of Wireless Waves

VICTORIAN listeners, who belong to what may almost be called the Old School of Wireless, namely, that period prior to three years ago, will remember the wonderful days, when 3LO, Melbourne, first came "on the air," as they called it, with its majestic wave-length of 1720 metres. It was not long before that overweening wave-length had a fall, to its present level of 371 metres, on which, for quite a long time, the fame of 3LO, Melbourne's, transmissions has securely rested. But now there is a universal tendency to drop down even lower, and in the search for a system of transmission that will reach every listener, far and near, by day, as well as by night, without fading, distortion, or other untoward conditions, 3LO, Melbourne, has been conducting tests on a wave-length of 32 metres, every Monday morning, from 4.30 to 6.30, for some months.

One of the most curious points about these tests is the apathy displayed toward them by Victorian listeners. Even hardened experimenters who think nothing of rising before daylight to search for an American, or other far off station, seem chary of a test that is near at hand. This is partly due, no doubt, to the old tradition of so-called "D. X. work," which was based on the observed fact that for the wave-lengths common in former days, the difficulties of reception increased with the distance. Distance, however, is not so important an obstacle nowadays, owing to great increases in power, as well as changes in wave-length; so much so, that it is quite a commonplace for the ordinary broadcast receiver, with the proper coils, to pick up Morse signals from places once sacred only to the most devoted experimenter. The basis of achievement, in fact, has now shifted from Morse to telephony, and from places very far off to places rather near. It seems absurd to say that it is easier to pick up 3LO, Melbourne's, short wave of 32 metres, or any other similar wave-length, at a distance of 1000 miles or more, than at a distance of 10 miles or less, but the evidence of amateurs and commercial operators alike assures us that the apparent absurdity is an actual fact. Now, what 3LO, Melbourne, wants to learn from its listeners is whether these short waves of broadcasting also cater for listeners close at hand, to pick up programmes to their entire satisfaction.

In an investigation of this nature there are, of necessity, many pitfalls for the unwary and uninformed. We know enough about wireless nowadays to be aware that a mere differ-

ence in wave-length makes all the difference in the world to broadcasting. What are now known as "long waves" behave differently under the same conditions and in the same localities from the behaviour of "short waves." Science is not "up to" such vagaries, which are more variable even than the weather, and it is impossible to foresee or to explain what will happen in any given district. When the change was made from 1720 to 371 metres, many districts suffered a complete change of reception. In most places the programmes gained considerably in clarity and volume, both by day and by night, but

in several large and important districts "fading" made itself a nuisance and a perplexity. The continuous co-operation of everyday folk, living all over Victoria and adjacent States, is earnestly sought by 3LO, Melbourne, in these new tests. Already the heaven is working, and occasional letters come in from curious folk, who take the trouble to tune down to 32 metres. One report lately spoke of good reception on a crystal set, using the ordinary broadcasting coil, but on the first tapping of six turns. It is reports such as this that are wanted by the score. Do please send them along.

## Radio Movie Club News

THE FIRST interstate branch of the Metro-Goldwyn-Mayer Radio Movie Club is to be formed at Southport School. Others are being contemplated and will be formed within a few weeks. It is suggested that members in each district or town form themselves into a local branch of the Radio Movie Club, electing president, vice-president, and secretary, when the head office of the club will communicate with the secretary direct.

THE NEXT COMPETITION will be held on June 20th. Here are a few additional hints. The person whose name you have to supply directed "Flesh and the Devil," has no middle name or initial, but his first initial is "C," whilst his last name is a colour. He was born in Clinton, U.S.A.

THE WINNERS of the Guessing Competition, held on May 30th, were:—William Dent, Marrickville; Nell Allan, Rozelle; Norma Carroll, Annandale; Edie Baker, Manly; Elsie Churchill, Stanmore; Harold Player, Newtown; Bert Hart, Newtown; Leslie Cahill, Bexley; Ola Davis, Mosman; Jack Madgwick, Concord; Keith Saunders, Croydon; Winnie Howarth, Marrickville; Enid Johnson, Cronulla; Alfred Brown, Camperdown; Esme Hall, Cremorne; Ray Lipman, Waverley; Gwen Davidson, Hurlstone Park; Iris Lindsay, Paddington; Gwen Herman, Petersham; Evelyn Holding, Mosman; Bob Mutton, Kensington; Nancy Burvill, Bankstown; Noelle Ginn, Bondi; Marjorie Painter, Wollstonecraft; Mrs. Lily Garlick, Harris Park. The correct answer was "Buster Keaton."

THE NEXT twenty members on the Radio Movie Club rolls are:—Pat Mahony, Sydney; Molly Mahony, Syd-

ney; Myee Knuth, Naremburn; Norman Coleman, Sydney; Harry Place, Gladesville; Maurice Gerard, Hurstville; Frank Patterson, Marrickville; Isobel Wall, Enfield; Florence Marquette, Wollstonecraft; Mr. V. White, Dulwich Hill; Olga Burke, Annandale; Norma Carroll, Newtown; Ernest Butler, Surry Hills; Marjorie Painter, Wollstonecraft; James Cowper, Elizabeth Bay; Mr. Max Rose, Newtown; Pearl Laird, Stanmore; Elsie Churchill, Stanmore; George Mills, Bellevue Hill; Gwen Herman, Petersham. Another twenty next week.

RADIO MOVIE CLUB programmes to be transmitted from 2GB are as follows:—Friday, June 22nd, Trackless Train News, Marion Davies' Feature Story, Movie Know All, Radio Movie Club; Saturday, June 23rd, Trackless Train News, Radio Movie Club Weekly Meeting, A Message from Your Favourite Star; Monday, June 25th, Trackless Train News, A New Lillian Gish, Movie Know All, Radio Movie Club; Tuesday, June 26th, Trackless Train News; Fashion Talk by Dorothy Sebastian, Movie Know All, Radio Movie Club; Wednesday, June 27th, Trackless Train News, William Haines—feature story, Movie Know All, Radio Movie Club and Competition Corner; Thursday, June 28th, Trackless Train News, "The Man Behind the Camera," Movie Know All.

CLUB BADGES are soon to be issued to members, but, firstly, suggestions are required from members for club colours, which will be incorporated in the badge. For the member whose suggestion is eventually used, a prize is to be offered.



# 2FC Features

## Scottish Songs — Prohibition Debate Russian Pianist.

ERIK LANGKER will speak on "Etchings and Engravings" at 2FC on Tuesday, 26th June.

"PRINCESS CHARMING": Marie Bremner, Kathryn Reece's captivating understudy, has been taking lead in "Princess Charming," the authorship of which so many brilliant people are responsible. The 2nd Act will be broadcast by 2FC on Friday, 22nd June.

"THE FOUR SCOTS" bring with them a refreshing breath of pure Hieland heather to 2FC on Wednesday, 27th June. Here, indeed, are items to delight Scottish hearts: "Bonnie Wee Thing," "My Love, she's but a Lassie yet," "Ye Banks and Braes," are among the solo and concerted items, and "Teaching Mackay to play the Pipes" will provide humorous interlude.

PROHIBITION DEBATE.—"The Need for Prohibition" will be debated at Sydney Town Hall on Thursday, 28th June. Three speakers in the affirmative have been chosen from the Prohibition Alliance, and three speakers contesting have been selected from the Citizens' Rights and Reform Association. The entire debate will be broadcast by 2FC.

PAUL VINOGRADOFF, the celebrated Russian pianist, is doing a great deal of orchestral work, and is only free for broadcasting on Sunday night. He is appearing at 2FC on Sunday, 24th June.

METROPOLITAN BAND is a keen body of musicians, with whom the 2FC announcer cordially states it is a pleasure to work. They are very interested, and watch with care the many little details which make for successful broadcasting. Their next appearance is set down for Tuesday, 26th June.

"WE HEARD a man's song one morning soon after 7 a.m.," writes Miss E. Stoyles of Terrigal, to 2FC, "but we didn't hear the name. It must have been a record!" It was! Not even the promise of a contract in perpetuity could coax the most ardent broadcasting artist to lift up his voice at the business man's zero hour.

FRANCES LEA, an artist from 3LO, who is in Sydney, will sing at 2FC on Wednesday, 27th June. Listeners will appreciate the unusual programme which Miss Lea has arranged. Her work is of a high standard, and well known throughout Australia.



William Bourne, conductor of the Sydney Harmonic Choir, which appears regularly at the 2FC Studio.

MISS GLADYS EDWARDES a most successful vocalist, was one of 2GB's first performers. Miss Edwardes, who is a gold medallist and a pupil of the Melba Conservatorium, still continues to broadcast from 2GB, and her items are greatly appreciated.

"I REMEMBER": J. G. Lockley, better known to 2FC listeners as "Redgum," is commencing a series of reminiscences on Saturday, 23rd June, "No, I'm not so very old," he told us, and rubbed a head untouched with grey, in characteristic gesture. "But I remember a lot of interesting things, and I'm going to tell people about them."

WILD GAME HUNTING IN THE NORTH: "Why, I didn't know the Northern Territory boasted wild game!" declared a fair listener, whose mind's eye immediately conjured up a truly awesome procession of "great big lions and tigers." C. Price Conigrave tells the thrilling story of the hunt in his own vivid style at 2FC on Friday, 22nd June.

ALEXANDER SVERJENSKY is President of the newly reorganised Kretschmann Club, which now boasts over two hundred members. The original idea was to keep the club confined to students of the famous master, but the natural course of time and circumstance so depleted the ranks, it was decided to form a new body representative of the musical talent of Sydney. Negotiations are being entered into for a "Kretschmann Night" at 2FC, in the near future. Mr. Sverjensky will give a recital at the Studios on Saturday, 23rd June.

## 2FC Features of the Week.

### TALKS.

FRIDAY, 22nd JUNE:  
3.15 p.m.—"Tittle Tattle Talk," by "Tessa."

7.45 p.m.—C. PRICE CONIGRAVE:  
"Wild Game Hunting in the North."

SATURDAY, 23rd JUNE:  
11 a.m.—"REDGUM": "Gardening."

SUNDAY, 24th JUNE:  
6.5 p.m.—Captain Fred Aarons:  
"Humors of History."

MONDAY, 25th JUNE:  
6.50 p.m.—"The Journalists' Ball":  
C. C. FAULKNER.

TUESDAY, 26th JUNE:  
7.45 p.m.—ERIK LANGKER:  
"Etchings and Engravings."

WEDNESDAY, 27th JUNE:  
7.45 p.m.—ELLIOTT NAPIER:  
"Walks Abroad."

THURSDAY, 28th JUNE:  
8 p.m.—PROHIBITION DEBATE  
from Sydney Town Hall.

### MUSIC—COMEDY—DRAMA.

FRIDAY, 22nd JUNE:  
8.20 p.m.—VLADIMIR ELIN, Russian baritone.

SATURDAY, 23rd JUNE:  
8.30 p.m.—EDGAR WARWICK REVUE COMPANY.

SUNDAY, 24th JUNE:  
2.45 p.m.—SYDNEY HARMONIC CHOIR.

9.30 p.m.—PAUL VINOGRADOFF, Russian pianist.

MONDAY, 25th JUNE:  
8.20 p.m.—TRADITIONAL IRISH MUSIC LECTURE-RECITAL, by Rev. N. M. McNALLY, Associate artist, William Dallison.

TUESDAY 26th JUNE:  
8 p.m.—METROPOLITAN BAND.

WEDNESDAY, 27th JUNE:  
8.15 p.m.—THE FOUR SCOTS, directed by R. M. Baxter.

THURSDAY, 28th JUNE:  
8 p.m.—DEBATE ON PROHIBITION:  
Three Speakers from Prohibition Alliance.  
Three Speakers from Citizens' Rights and Reform Association.





Marjorie Pritchard (aged 14), the leader of 2BL's Juvenile Choir.

ON SUNDAY, 24th June, Ambrose Gibbs, the organist at Petersham Congregational Church, has arranged an attractive programme of organ and orchestral music. These recitals are very popular during the winter months. The short afternoon closes all too soon, and after an early tea "the family" and their friends are prepared to enjoy an hour's musical entertainment before the church service commences.

THERE ARE many new artists of exceptional merit who are shortly to make their debut from 2BL, and a number of regular performers are also still to be heard from that station. Among 2BL's coming artists are:—Will Clarke, a basso of rare type, who has been delighting 3LO's listeners; W. S. Rae, who will lecture on Notable Personages. Mr. Rae has had personal contact with Abraham Lincoln, Beethoven, and many other leading lights of the world; The British Musical Society's Quartette, who will shortly resume after a vacation; Mosman Municipal Band, famed for its tone. The Silver Quartette, who are now known to listeners all over the State; The Broadway Four, a male quartette in a series of musical pieces; Tooth's Band, Sweetacres' Band, Manly Municipal Band, Ashfield Band, Leichhardt District Band, and North Sydney Tramway Band. A Band Quickstep is to take place at Hurstville Oval on July 22nd, in which twelve bands will partake. There will also be massed band music. 2BL will broadcast these proceedings. Further, listeners will be overjoyed to hear that their letters have been answered in a practical manner by the announcement that the Song Cycles, which caused great interest, are to be resumed at the end of this month.

## 3LO's Wireless Telepathy Test. Novel Scientific Experiment.

*Listeners all over Australia will take part.*

SO remarkable was the interest in and the success of the mass telepathy test conducted by 3LO Melbourne in May of last year, that the station will repeat the experiment this winter, in response to many requests. The date selected is June 26, and the hour 9 p.m. The test will occupy seven minutes, and should prove as fascinating for those who have but a passing interest in this study as for those who believe in the power to convey impressions from one mind to another independently of the recognised channels of sense.

The test last winter was an experiment in more senses than one. It was not known whether radio-telepathy was practicable. Neither was it known whether the test would appeal to the great body of the public. The result in both its phases was eminently satisfactory and encouraging.

Altogether, 15,221 listeners forwarded to the Studio their impressions recorded during the experiment, and in a surprisingly large number of instances, the objects concerned were visualised correctly. For instance, a penny was used in the first test, and 68 people recorded this fact, although only three named the object in the correct order. No less than 624 people received the key impression, and two placed it in the correct order; and so on.

### How Test is Made.

The result of the experiment was definitely positive, opening up for students of telepathy a hitherto unknown field of research. The experiment on June 26 will be conducted on similar lines to the first. A committee of three, specially chosen, will

conduct the experiment. They will enter the studio just before the test begins, and until they are actually seated at the table will not see the articles which will form the objects of the experiment; and even then, the articles will only be shown to them singly, as the test progresses.

With an article before them on the otherwise bare table, the committee will concentrate upon it, and at a given signal, which will be common both to them and to the hundreds of thousands of listeners, the first test will begin.

Listeners are requested to have before them a sheet of paper, and to write down at the conclusion of, or during each test, their impression of the article under scrutiny in the Studio. In this way each separate experiment will be undertaken. Listeners should then place the sheet of paper in an envelope, and forward it to 3LO Melbourne.

It will be interesting to contrast the results of this experiment with those of the last. It may be safe to assume that even greater interest will attach to this departure from the usual programme, than was the case when the first experiment was made. For one thing, there are more listeners, and for another, there are more who will regard the test seriously, and not just as a "stunt."

### Interest Overseas.

Interest will not be confined to Australians. Scientists in America, England and on the Continent evoked the keenest interest in the first experiment, and will eagerly await the result of the second.

3LO will make further announcements before the test takes place.

## 2FC Competition

Each week 2FC is offering prizes for the four best short anecdotes in a "That's the Limit" Competition. Listeners are asked to forward to the Station the best short quip they know. The first competition closes on 18th June, and thereafter every succeeding Monday. Winners announced in "Wireless Weekly," 27th June, 1928; winners announced by 2FC 28th June, 1928, and each succeeding Wednesday and Thursday.

PRIZES EACH WEEK: 1st, 10/-; 2nd, 5/-; 3rd and 4th, 2/6 each.

Another series of prizes is offered for the Listener guessing the nearest Number of Calls made by the "Hello Man" during May.

CLOSING DATE: 22nd June, 1928.

PRIZES: 1st, 10/-; 2nd, 5/-; 3rd and 4th, 2/6 each.



# In the Air at 3LO

## Coming Features in the Programmes.

THE COLLINGWOOD Citizens' Band will visit 3LO Melbourne on Friday night, June 29, and will broadcast a fine programme of music.

MR. N. H. BUTCHER, the authority on stamp collecting, will speak from 3LO Melbourne during the Children's Hour on Monday, June 25, on this subject. He has much interesting information to impart concerning the history of stamp collecting, on values and on stamps of various countries.

THE BRUNSWICK City Band will visit 3LO Melbourne on Sunday night, June 24, and will broadcast selections during the evening. Band music is always popular with the majority of listeners, and the Brunswick City Band is well liked.

THE SONORA CONCERTS broadcast by 3LO Melbourne every Sunday afternoon, from 2 till 3 p.m., are always listened to with the greatest of interest and appreciation. Listeners who have gramophones say that they are greatly assisted in the choice of records. The concerts are always of a high standard, and that on Sunday, June 24, will be no exception.

THE POPULAR entertainers, Rupert Hazel and Elsie Day, will be prominent in 3LO programmes during the week beginning on Sunday, June 24. At 3 p.m. on Wednesday, June 27, they will appear for 12 minutes in a specialty act, and they will be on frequently at other times during the week. They are both firm favorites with 3LO listeners.

COLIN THOMPSON, the popular tenor who frequently broadcasts from 3LO, is one of Melbourne's younger vocalists, who is rapidly coming to the front rank of his profession. He is an exhibitionist, and during his student days at the University, was often selected to sing at the concerts, and on more than one occasion was personally complimented by Dame Nellie Melba, who advised him to make an effort to go abroad to complete his musical education. For the present, however, he is content to remain in Melbourne. He is the principal tenor at Scots Church, and in the exacting oratorio work his voice shows to perfection, whilst in the more popular type of ballad vocalism, his artistic interpretation and perfect enunciation make his contributions to the programme most welcome.

A ONE-ACT PLAY will be broadcast from 3LO Melbourne by the Victorian Railways Institute Dramatic Society on Tuesday night, June 26.

THE COBURG City Band will broadcast a programme from 3LO Melbourne on Monday night, June 25. This combination is well known, and should provide listeners with excellent entertainment.

A FEATURE of the 3LO programme on Sunday, June 24, will be the appearance of Francois Stempinski, the noted violinist. He has had a most successful career, and is at present delighting Melbourne audiences at the Capitol.

ON FRIDAY, June 29, a delightful programme of English operatic music has been arranged and will be broadcast from 3LO. In a programme full of good things may be mentioned selections from "The Bohemian Girl," "Maritana," "Martha" and "The Lily of Killarney," and the artists, Alice Mallon (soprano), Victor Baxter (tenor), and Bobby Pearce (baritone) will give a good account of the familiar airs, "The Harps in the Air," "Let me like a Soldier Fall," "I Dreamt that I dwelt in Marble Halls" and "Scenes that are Brightest."



Graham Burgin, conductor of the Southern Cross Choral Society, who won the chief choral contest, as male chorus and female chorus, at the annual Eisteddfod held by the Goulburn District Musical Society. He is a regular 3LO broadcaster.

3LO WILL BROADCAST a concert given at the Studio by the 57th Battalion Band on Saturday night, June 30.

COMMUNITY singing at the Town Hall on Thursday, June 28, will be broadcast by 3LO. This popular session is always largely attended. 3LO will begin broadcasting it at 12.15 p.m.

3LO MELBOURNE will broadcast the community singing to take place at the Assembly Hall, Collins Street, at 12.20 p.m., on Monday, June 25. The conductor will be Mr. G. J. MacKay, 3LO's own artists, the Gypsy Players, Miss Marjorie Lawrence (the "Sun" aria competition winner), and Mr. J. Howard King, bass-baritone, will assist.

DOES ANYONE believe in spooks nowadays? Of course they do, especially when the ghost stories are told in a convincing manner, with proper surroundings. On Friday, June 29, the first of a series of ghost stories will be broadcast from 3LO, and listeners are promised thrills enough to last them a lifetime. The narrator of these tales—who shall be nameless—has been busily delving into the past of some of our great historical families, each of whom (of course) has its own private ghost, which parades at certain seasons of the year to commemorate some thrilling event. Listeners can create their own atmosphere by carefully switching off all the lights, and maintaining a strict silence. The speaker will do the rest.

LISTENERS TO 3LO will be glad to learn that Rita Hilton, the versatile entertainer, is returning for a short season, with a budget of new songs, and some old favourites. It is not generally known that this popular artist first commenced her career as a ballad vocalist, and did much good work during the war at camps, hospitals, etc. One night the comedian and entertainer both failed to put in an appearance, the stage manager thought the "Diggers" had had enough sentimental fare for one evening, Rita bravely stepped in to fill the breach by singing the old favorite, "He's Coming Home," scored an immediate success with an unexpected vein of comedy, and has been carrying on the good work ever since.



WHENEVER Miss Ella Riddell, the popular contralto, broadcasts from 3LO, she is always sure of a hearty welcome from listeners. Miss Riddell is a Scottish contralto, who, before coming to Australia, carried off many scholarships and vocal competitions from her native heather. As listeners know, she specialises in Scottish ballads, "Doon the Burn" and "Caller Herrin'" being two of her personal favourites, and she has made an extensive study of the old Scottish and Gaelic folklore. Many of her songs are written in the original language of the Hebrides, and she is probably the only vocalist in Australia who is able to interpret and sing in the ancient Gaelic tongue.

SELDOM IS IT possible to, obtain the services of such a notable singer as M. Vladimur Alexeevich Elin for broadcasting, and listeners are promised a rare treat on July 9, when that famous Russian will open a season with 3LO. M. Elin has had a romantic career, and he has come to Australia unaccompanied by a reputation and much publicity, but his undoubted ability will impress him on the music-loving public of Australia. M. Elin was formerly the leading baritone at the Mariyinsky Theatre of Royal Opera, Petrograd, during the Czarist regime, but he found it necessary to leave Russia when the monarchy fell. M. Elin took the means of escape adopted by many, that of travelling through Siberia to China. In China, M. Elin achieved great fame in the limited music public, but he sighed for further worlds to conquer, and he left China for the Philippines. At Manila, he was professor of voice culture at the Conservatorium of Music attached to the university, but that was merely a step towards his desired goal—Australia. Early this year, M. Elin arrived in Sydney, and he immediately leapt into favor, in a series of concerts, in which he was assisted by the famous pianist, Henri Penn. M. Elin was trained in Petrograd by a pupil of Anton Rubinstein, whose school has launched already many successful operatic singers. M. Elin planned to begin his professional career in Italy, after further study in Milan, but the disturbance in Russia compelled him to alter his plans. M. Elin's greatest love is for the Russian opera, Prince Ygor, in which the beauties of his splendid voice are heard to the best advantage. This charming Russian romance, both grave and gay, allows full scope for his qualities of graceful tenderness and delicate humor, which qualities are seldom combined in one singer. M. Elin will appear for an extended season with 3LO.

THE SOUTHERN Choral Society Choir, under Mr. Graham Burgin, will broadcast from 3LO Melbourne on Sunday night, June 24. The choir recently met with success in Sydney, and listeners can be assured of an excellent programme.

### 3LO Features

#### SUNDAY, JUNE 24:

- 2 p.m.—Sonora Recital of the World's most Famous Records.
- 7 p.m.—Evening Service from St. Paul's Cathedral, the Sermon by Archdeacon Hancock.
- 8.52 p.m.—Francois Stempinski, Violin.
- 9.10 p.m.—Southern Choral Society.

#### MONDAY, JUNE 25:

- 12.45 p.m.—Marjorie Lawrence, Soprano (Winner of "Sun" Aria), first appearance.
- Afternoon Session a programme of Pre-War Reminiscences.
- 4.4 p.m.—Marcelle Berardi, Soprano.
- 6.25 p.m.—Children's Hour: W. H. Butcher, a Talk on "Postage Stamps."
- 8.42 p.m.—Alfred Hospital Auxiliary Pierrots.
- 10 p.m.—William G. James, Piano Recital.

#### TUESDAY, JUNE 26:

- Classical Lunch Hour.
- 8.1 p.m.—Kingsville and Yarraville Band.
- 8.15 p.m.—French Bros., Banjoists.
- 8.30 p.m.—Victorian Railway Institute Dramatic Society Play, "Emily's Excuse."
- 9.20 p.m.—Telepathy Test.

#### WEDNESDAY, JUNE 27:

- 12.50 p.m.—Rupert, Hazell and Elsie Day.
- 6.55 p.m.—Children's Hour: William Tainsh and Special Stories for Children.
- 8 p.m.—Opera Story.
- 9.30 p.m.—Special Recital of Classical Songs.

#### THURSDAY, JUNE 28:

- Midday Community Singing.
- 6.40 p.m.—Concert for Children, arranged by Fritz Hart.
- 8 p.m.—Vagabonds' Dance Programme.

#### FRIDAY, JUNE 29:

- Afternoon, Special Selection from English Operas.
- 8 p.m.—Collingwood Citizens' Band.
- 8.38 p.m.—Southern Choral Society.
- 8.55 p.m.—Ghost Story.

#### SATURDAY, JUNE 30:

- 11.17 a.m.—Eric Welch: To-day's Races.
- Afternoon: Description of League Football, Melbourne v. Footscray, by Rod. McGregor.
- 8.1 p.m.—57th Battalion Band.
- 8.50 p.m.—Description of Wrestling Match from the West Melbourne Stadium by Eric Welch.

THERE IS AN OLD saying which indicates that, no matter how good you may be, there is always someone equally efficient to fill your place, and this has been amply demonstrated at 3LO by the capable and easy way that Eric Welch has fallen into the description of wrestling events from the Stadium. His descriptions are graphic, he is able, in a few words, to draw striking little pictures of the various "holds," his eye is hawklike, and misses nothing, and whilst there is a lull in the proceedings he is able to fill in with breezy little details about the distinguished members of the audience, so that there is not a dull moment while he is before the Stadium microphone.

LISTENERS-IN will have the opportunity of hearing the delightful melodies of that evergreen of musical comedies, "Our Miss Gibbs," which has been enjoyed by all sections of the English-speaking world during the last 18 years. Bradshaw's Collegians Operatic Society, although a comparatively young organisation, has made rapid progress during the last two years, and great success was achieved by the society in its last production, "A Country Girl." Miss Dorothy King, who plays the name part in "Our Miss Gibbs," has a light but sweet voice, which is well suited to the winsome character which she portrays. Miss Maisie Bickford (Lady Betty) has had some previous experience in musical comedy work, and at all times her singing has met with great praise. Lord Eynsford will be played by Mr. H. C. Craven, and the comedy numbers will be in the hands of Mr. R. F. Glew (Tim), Mr. W. A. Y. Pride (Hughie), and Miss Pauline O'Brien (Madame Jeanne). The sextets and chorus numbers are an outstanding feature of the production, and the chorus and orchestra will be under the baton of Leslie Hoffman. It is the intention of the society to produce two comic operas annually, and the next production will probably be "High Jinks," which will be presented towards the end of the year.

LIONEL LAWSON, one of the leading violinists in Australia to-day, has proved the fallacy that broadcasting is injurious. He has been appearing regularly at 2FC for the last three years, and during that time has attained an unassailable position in Sydney's musical life. Kreisler complained he could not give of his best to listeners, since his performance under unnatural and unsympathetic conditions would not do him justice. Lionel Lawson has apparently overcome this tendency to microphone fright, during his long association with 2FC. His broadcast performances do him full justice. He is appearing again on Friday, 22nd June.



# 3AR Becomes First Class Station

INCLUDED IN THE programmes from 3AR is Sylvia van Asche, soprano, who is well known in musical circles in Melbourne, and who is also a great favorite with listeners, having broadcast on many occasions from 3LO. In addition to her broadcasting and concert engagements, Miss van Asche has done much operatic work and intends to devote her future to perfecting this branch of her profession.

A VERY WELCOME new-comer to 3AR is Miss Dorothy Huhs, well known in Melbourne concert and musical circles, and who has carried off honors in many of our Victorian vocal scholarships and competitions. She is possessed of a well-trained, flexible mezzo-soprano voice, which is used to great advantage in such familiar numbers as "My Ships," "Christina's Lament," and "Still as the Night," and although this is Miss Huhs' first bow before the microphone, she will have no difficulty in making friends with a wide circle of listeners from the start.

IN RESPONSE to many requests the Women's Hour has been transferred to 3LO, and will take place during the customary morning session. Listeners seemingly cannot become accustomed to hearing the "Home Talks" from 3AR, and have written budgets of letters, to ask that the old arrangements shall be adhered to. For the benefit of those who may be a little confused, for the first week, commencing June 18, the talks will be broadcast from the two stations, 3LO in the mornings, and 3AR in the afternoons, so that no one shall be disappointed, and everyone will have time to hear about the new arrangements.

THAT POPULAR and versatile entertainer, Alan Adcock, is once again broadcasting from 3AR, to the delight of a wide circle of friends. In addition to being a pianist and composer of far beyond average ability, Mr. Adcock is possessed of a well-trained voice and a keen sense of humor. He is a "man of many parts," and, during a tour of the Far East, when several of the company fell sick, he not only successfully filled a light comedy role, but followed this performance by the intensely dramatic "Spider" in the "Silver King," in which his "make-up" was so good that his own friends in the audience failed to recognise him.

MR. C. E. MONTEATH, the organist at St. Peter's Church, Eastern Hill, will delight listeners, on Wednesday, June 27, when he will broadcast an organ recital from 3AR. Mr. Monteath is already familiar to a large number of listeners, with whom he is extremely popular, and 3AR are making a feature of the recital, which will begin at half-past eight o'clock.

APPRECIATIVE LETTERS continue to arrive from all parts of Victoria to 3AR, commenting upon the fact that, since the two stations have combined, the transmission at 3AR has improved "cent per cent." This is scarcely to be wondered at, for extensive alterations have been made at the broadcasting station at Essendon, where everything is being done to make the transmission as perfect as possible, and so enhance the enjoyment of listeners.

LISTENERS ARE asked to make a special note of the fact that, on June 24 special arrangements have been made by 3AR to broadcast the "Closing Thanksgiving Service" from St. John's Presbyterian Church, Ballarat. This news should especially interest old Ballarat residents who are now in Melbourne, and we have heard that already one dear old lady, aged 85 years, has just had a wireless set installed, so that she will be in time to listen-in to the service.

WHILE OTHER branches of entertainment continue to depend upon imported bands for their dance music, the leading broadcasting stations in Melbourne are leading the way in paying high fees for the services of all-Australian bands. It cannot be denied that Australian bands hold their own with those bands which have come to us with a mass of overseas publicity. Since the co-ordination of services between the "A" class stations in Melbourne, it has been decided that 3AR will provide a greatly increased amount of music for its listeners, and with that end in view, the services of that excellent jazz band, Trevor May's Australians, have been secured. The dance music which will be played by that combination will do much to brighten the programmes from that station, and another delightful feature will be the co-operation of the Gypsy Players with Trevor May's Australians. The Gypsy Players will play between the hours of 5 and 8 p.m., and the assistance of many leading vocalists during that session will make it a period of delight for listeners.

THE TALENTED soprano, Julia Russell, still continues to add to her popularity at 3AR, with her well-chosen songs and pleasing voice. It is not generally known that Miss Russell is a New Zealand girl, and comes of a famous singing family, her cousin being the distinguished artist, Frances Alda, who visited Melbourne last year. For some time past, Miss Russell has been making a study of old traditional Jewish melodies, many copied from ancient manuscripts, and she hopes to include some of these unique selections on her programme in the not too far distant future.

3AR WILL SOON be known as the "melodious station," for arrangements have now been completed to broadcast eight and a half hours' music a day. This will cover a wide range, from operatic selections to the popular jazz and blue numbers, and will be interspersed with vocal selections from artists. Those concerned are busily at work, arranging some specially attractive programmes, and listeners who desire music at any hour of the day will now merely have to turn their dial, and "tune in" to 3AR.

MARION LIGHTFOOT, the popular entertainer from 3LO, has now taken up her quarters at 3AR, together with her banjo, English concertina, and steel guitar, to say nothing of her delightful soprano voice, and a budget of new songs. Miss Lightfoot, although an Australian artist, has done much globe-trotting, and whilst in London fulfilled successful contracts at the Alhambra and London Coliseum, which may be said to be the two principal music halls in England. She comes of a talented musical family, her father being known as a tenor of much repute on both the Australian and English concert platforms.

MR. A. V. LUKE, of Croydon, N.S.W., cheers the heart of 2FC: "I realise that your task of pleasing everyone is a stiff one. When an American or English programme is relayed, however, I consider the local programme stands out in contrast—for variety and quality it is better, undoubtedly." His criticism of the recent Melba broadcast is unique. "Long distance land line work is amazing, and it was very unfortunate that Melba, who was in fine fettle, was short circuited! Better luck next time."



# "B" Battery Current

## From the LIGHT SOCKET

Do you know that you can draw your "B" Battery current from the nearest powerpoint or light socket and eliminate "B" Batteries for good?

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- 1 Panel.
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#### PARTS FOR THE FIDELITY THREE IN THIS ISSUE.

	£	s.	d.
1 Luzerne Panel, 21 x 7 x 3-16 .....	0	7	6
1 Lewcos Split Primary R.F. Coil Unit .....	1	7	0
1 Lewcos Aerial Coil Unit .....	1	7	0
2 Eco .0005 Condensers, 10/- .....	1	0	0
1 Eco .00035 Condenser .....	0	8	9
1 30 ohm. Super Rheostat .....	0	2	6
2 Brachstats, 4/9 .....	0	9	6
3 Emmco Spring Sockets, 2/6 .....	0	7	6
1 Philips Transformer .....	1	7	6
1 A.W.A. Choke .....	0	18	0
1 Philmore Midget Condenser .....	0	4	3
1 Pollock, R.F. Choke .....	0	5	6
1 Wetless .00025 Condenser .....	0	1	9
1 Philmore 5 Meg. Leak .....	0	1	0
1 .006 Sangano Condenser .....	0	4	6
1 B.M.S. Battery Switch .....	0	1	6
1 B.M.S. Single Jack .....	0	1	7
1 C Battery (Everready) .....	0	2	9
1 Terminal Board .....	0	2	6

Total .....

COUNTRY CLIENTS.—Our parts are absolutely guaranteed to give satisfaction. Send your orders to us conditionally that your money is refunded if you are not satisfied with the goods upon receipt of same. Goods must be returned to us within ten days. We pay Carriage on All Orders of 10/- and over, Post Parcels. Valves and goods specially procured, cannot be exchanged.

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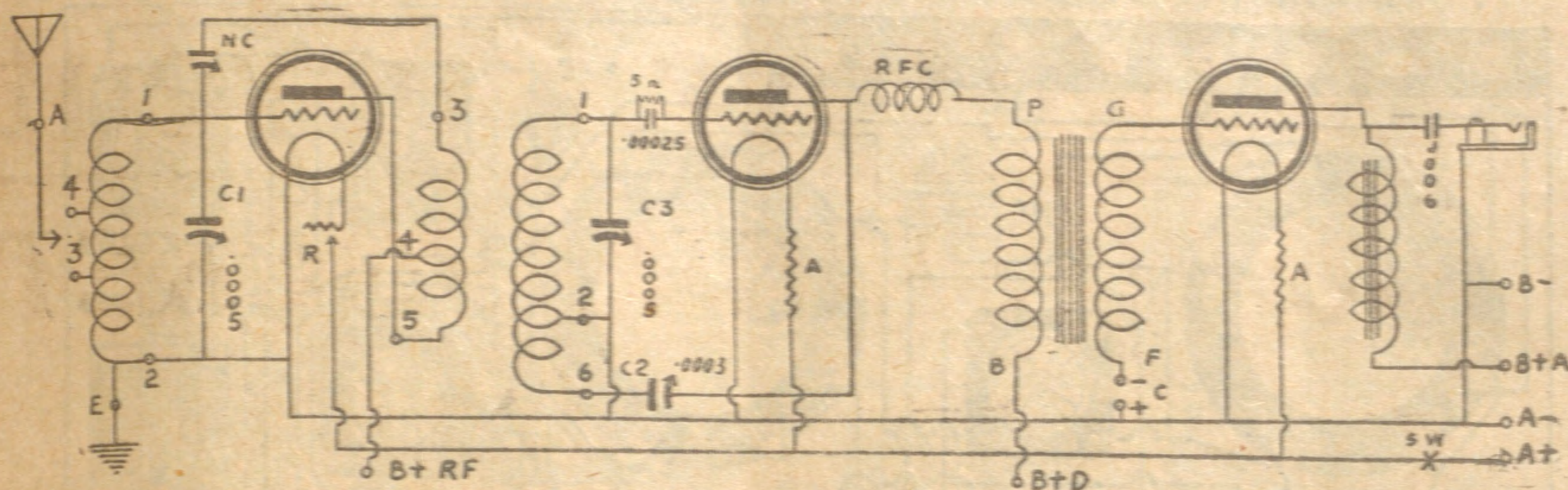
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## THE FIDELITY THREE.

ONE may possess a really good loud speaker, capable of reproducing speech currents at an astonishing volume without any trace of distortion, but naturally a speaker capable of such work normally requires specially constructed sets in order to do it justice. This applies particularly to the Dynamic or moving coil speaker, and in some cases to many of the cone type. To build a receiver employing indifferent components and values, and to use this with a speaker of undoubted quality and reputation, is like putting the cart before the horse. Any loud speaker which is worthy of its place as an audio reproducer will only behave in the manner in which it is allowed. It is subject to the whims and fancies of the circuit in which it is used, so much so, that countless would-be wireless "fans" have turned to some other source of entertainment in disgust upon hearing an excellent speaker of attractive appearance giving vent to its feelings in distorted protest at the set it is forced to work with. Quality in wireless broadcasting reception is far to be preferred to quantity. How much better it is to operate a set which normally will not deliver any startling performance 'on long distance stations, but reproduces faithfully the local programmes at ample volume; than to listen to the owner of a Super "Crankodyne" trying to squeeze the last ounce out of some interstate station, with a consequent barrage of motor boating, distortion, and various symptoms detrimental to good reception. The name given to this receiver described here is quite in keeping with its fidelity of reproduction, and by describing such a receiver the writer is endeavoring to "clear the air" for those whose first consideration is quality and not dist-

ance alone. These last few words must not be taken to mean that the Fidelity Three is not a long distance receiver. It is—and very much so! For simplicity's sake, it is described with only one stage of audio amplification. There is no reason why the extra stage should not be added; in fact, it is really essential for average

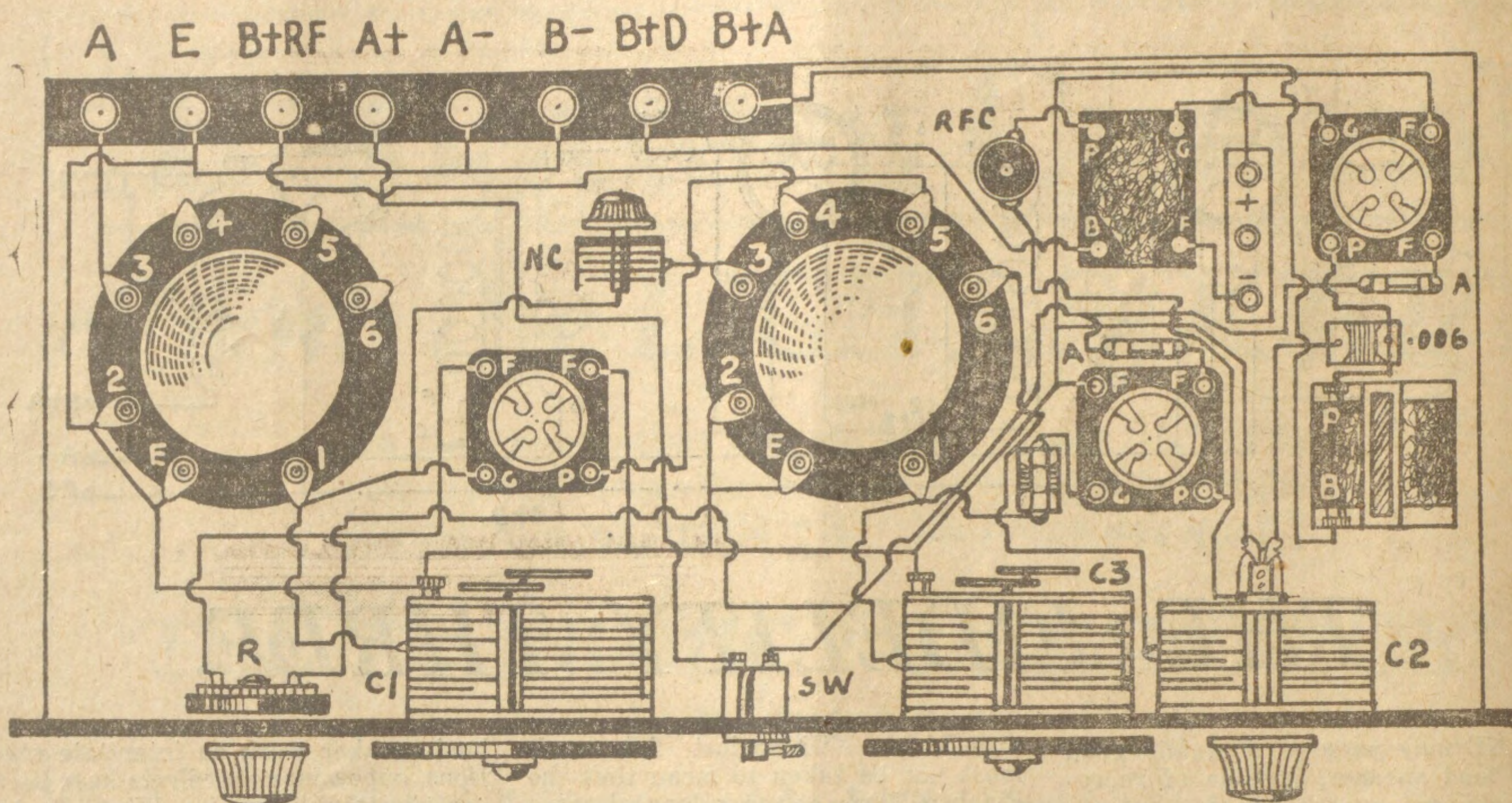
loud speaker work on interstate stations, but so many receivers have been described in "Wireless Weekly" by this time, using varying systems of audio amplification that the writer leaves the choice of extra amplification to the reader. If an extra stage is incorporated, it may be transformer, impedance or resistance, but in the first case a transformer of unimpeachable quality should definitely be used. The one used in the existing stage cannot very well be improved upon in this respect. This is one of the Philips' new transformers. An impedance unit such as the Rauland Lyric will make an ideal alternative for distortionless amplification and lastly, a resistance capacity unit is simple to a degree to construct, as it constitutes only a couple of resistances and a fixed coupling condenser. In any case, whatever method of amplification is used, valves suited to the impedance of the circuit are imperative. The coil units used for the Fidelity Three are particularly interesting, and are a fine example of excellent workmanship and precision. They are the Lewcos Split primary type and are designed initially for use with the Solodyne circuit. These coils are made in a unique manner with a six pin base mounting. An aluminium shield entirely encloses the coil unit, and this shield is removable in order to remove the coil unit from its base mountings. Some will be inclined to ask what the advantage is in having the coils constructed so as to be removable from the base. There is a very good reason for this, which is that the construction of a set using Lewcos coils of the Solodyne type is greatly simplified, as the set may be wired up with the base mountings in position and the coils removed, leaving a lot of desirable space for the

*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.*

### LIST OF PARTS FOR THE FIDELITY THREE.

- 1-Dilecto Bakelite or hard rubber panel 21 x 7 x 3/16.
- 1-Baseboard 20 x 8 x 1/2 in.
- 1-LEWCOS split primary R.F. transformer coil unit.
- 1-LEWCOS aerial coil unit.
- 2-Gecophone .0005 SLF variable condensers.
- 1-Emmco or Advance .0003 SLF variable condenser.
- 1-30 ohms rheostat.
- 2-Amperite or Brachstat automatic resistors.
- 3-Benjamin UX valve sockets.
- 1-Philips' inter-valve transformer.
- 1-A.W.A. super audio choke.
- 1-Advance midge: neutralising condenser.
- 1-Radiokes R.F. choke.
- 1-.00025 grid condenser and 5 meg leak.
- 1-.006 T.C.C. fixed condenser.
- 1-Filament switch.
- 1-Single circuit jack.
- 1-4 1/2 volt C battery.
- 8-terminals.
- 16's tinned copper wire, solder, etc.



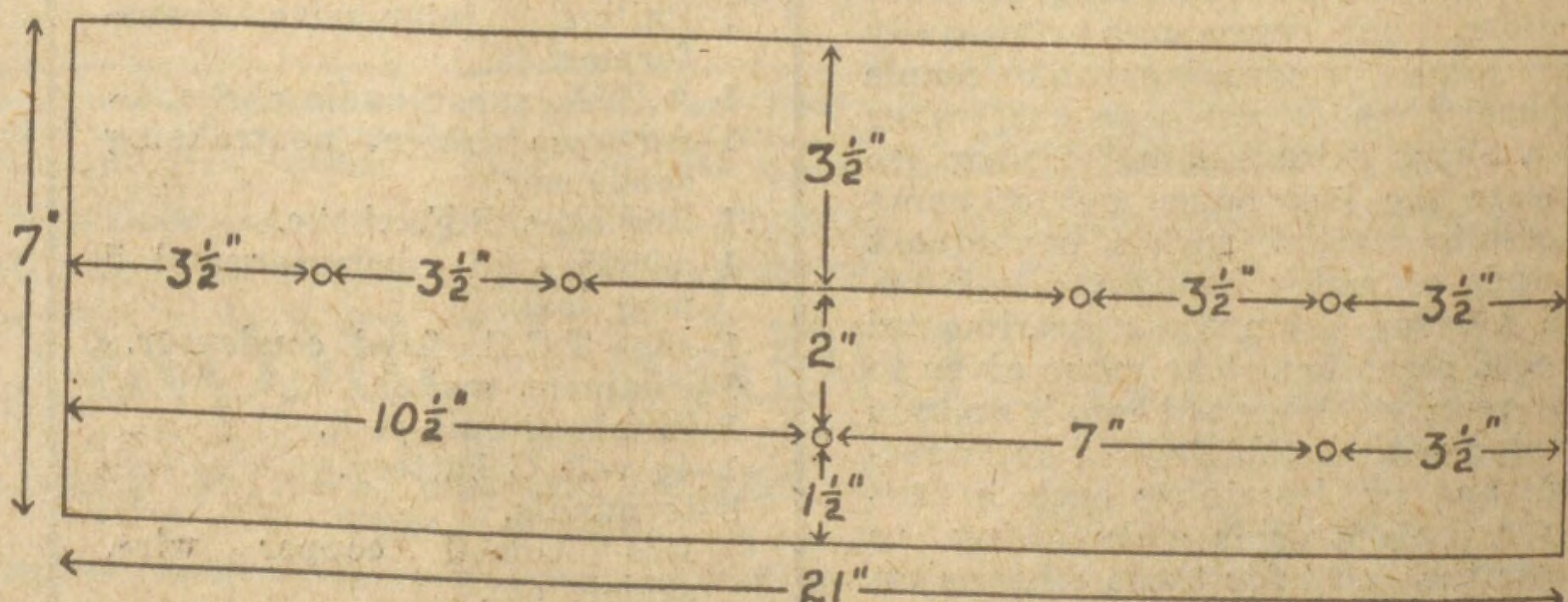


constructor to work in. Furthermore, if any addition or alteration is to be made to any set using these coils, it requires but a moment to get at the set with the coils out of the base mounting. This allows access to the wiring without restriction. The Lewcos coils used in the Fidelity Three comprise the aerial coil and one split primary R.F. transformer from the Lewcos Solodyne Kit. In each carton containing these coils is a leaflet showing the connections, and wavelength range of all types of Lewcos coils. Here I will mention that these Solodyne units are identical with those used by the Radio Press in England in the original, and later, Solodyne circuits, and their efficiency leaves nothing to be desired. They are a fine example of British workmanship and are obtainable in Sydney from the Liverpool Electric Cable Co., Ltd., 187 Clarence-street, Sydney, or Swains, Ltd., Pitt-street, Sydney. The circuit of the Fidelity Three consists of one R.F. detector and one audio stage. Reaction is obtainable in the detector circuit by means of a variable capacity control, or by the Reinartz method. The Lewcos coil mountings are clearly marked for the connections, and although this six pin mounting is standard; in the aerial circuit, only the terminals marked 1, 2, 3 and 4 are used. Terminal No. 1 is the connection to the grid of the R.F. valve and 2 to the A—and earth. Terminals 3 and 4 provide for alternative aerial tapplings in order to obtain a better degree of selectivity, as may be required according to location. The R.F. transformer connections 1 and 2 are grid and fila-

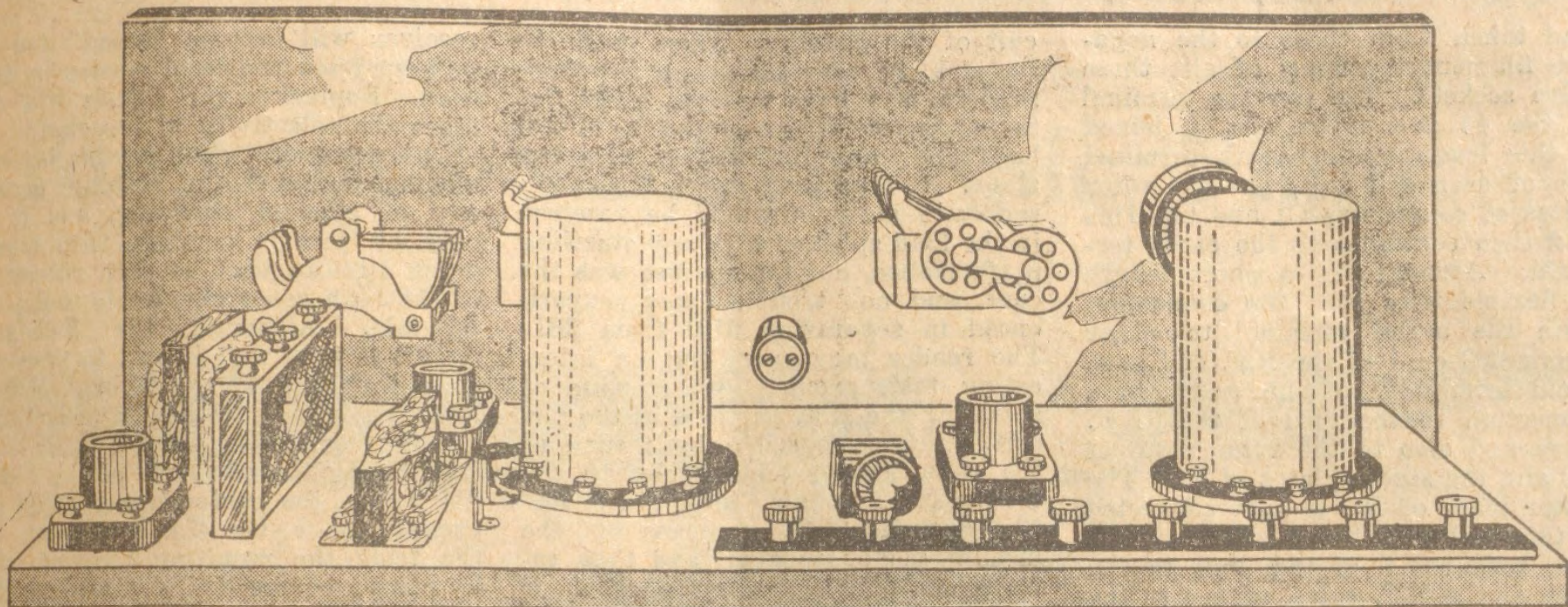
ment, respectively, and 6 is the connection through the reaction condenser to the plate of the detector valve. Terminal 3 is the connection from the primary to the neutralising condenser, with 5 to the plate of the R.F. valve, and 4 to the B positive supply, for this valve. Each Lewcos base mounting has an earth terminal which is connected to the aluminium shield. The earthing of the shields really depends upon the circuit in which these coils are used, and in the case of the Fidelity Three, they are earthed to the A negative supply. The variable condensers used for tuning are both of the well-known Gecophone manufacture. Too much cannot be said in praise of these condensers, and as an example of engineering precision they are particularly suitable for use in any circuit where fine tuning is desirable.

These condensers are marked C1 and C3 respectively, in the theoretical circuit diagram, and both have the same capacity, i.e., .0005 mfd. C1 is the condenser tuning the aerial circuit or R.F. stage, and C2 tunes the

inter-stage R.F. transformer or detector circuit. The reaction condenser C3 has a capacity of .0003 mfd. and is of Emmco manufacture. Dealing with the Lewcos coil units it will be found that each connection is numbered in accordance with the theoretical circuit diagram. Both base mountings are identical, but in the case of the aerial unit, terminals Nos. 5 and 6 are unused. Terminal No. 1 is connected to the grid of the R.F. valve and the stator plates of C1 together with the rotor plates of the neutralising condenser marked NC. Terminal 2 connects to the rotor plates of C1 and the A negative, B negative, which are also earthed. A variable aerial tapping is provided by means of terminals 3 and 4. Although this variation of aerial coupling should provide sufficient selectivity, the reader may find it necessary to include in series with the aerial the usual .0001 fixed condenser. This is not shown in the circuit diagrams. The inter-stage R.F. transformer used in the detector circuit makes use of all the terminals supplied. Ter-



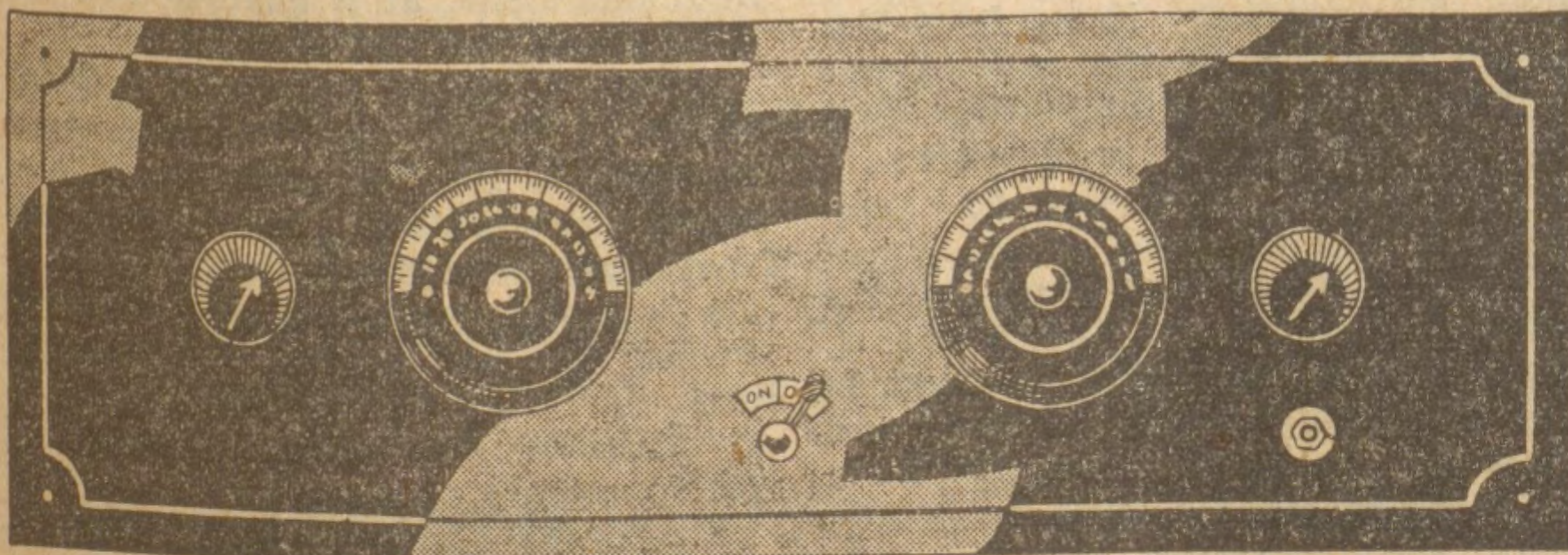




minal 1 is connected to the grid of the detector valve through a .00025 grid condenser used with a 5 megohm leak. Terminal 2 is the filament return, and is common to the rotor plates of the tuning condenser C3. From terminal 6 connection is taken to the stator plates of the reaction condenser C2. The B positive R.F. supply is connected directly to terminal 4 of the primary, with terminal 5 to the plate of the R.F. valve and terminal 3 to the stator plate of the neutralising condenser NC. A 30 ohm. rheostat controls the filament voltage of the R.F. valve, whilst the detector and audio amplifier are both controlled by automatic resistors of the Amperite or Brachstat type, according to the valves in use. It will be noted that an output filter is provided between the plate of the last valve and the single circuit jack to the loud speaker. For those who do not wish to construct their own, the Amplion Siftron unit will be useful here, although it is a comparatively simple matter to construct such a filter unit as shown by the use of an A.W.A. super-audio choke and a .006 fixed condenser. A grid bias battery of 4½ volts is included in the set itself, and is wired in the usual way from the A negative to the filament terminal of the Philips' transformer secondary. In series with the primary of this transformer is a Radiokes R.F. choke, to prevent the introduction of R.F. currents into the audio

amplifying portion of the receiver. A panel will be required for the construction of this receiver measuring 21 x 7 x 3-16-in. This is used with a baseboard measuring 20 x 8-in. To keep the panel free from bulky controls the regeneration condenser C2 is controlled by means of a small Bakelite knob to fit the standard-sized spindle for the Emmco condenser. The two Gecophone condensers are located centrally on the panel with the 30 ohm. rheostat on the left. In the centre of the panel at the bottom is the filament switch with the single circuit jack directly underneath the condenser C2. The Gecophone condensers are mounted by means of a one-hole fixing, the details of which are supplied in the carton with the condenser. Mark off the panel in accordance with the template drilling diagram, and centre-punch each position lightly. Next drill the panel to take counter-sunk headed wood screws for mounting to the baseboard. The drilling will be greatly simplified by allowing the baseboard to project over the edge of the bench, thus eliminating the necessity for gripping the panel in the vice, which is the procedure usually adopted by the beginner. If a panel is drilled in the vice it is advisable to use some form of packing between the panel and the steel jaws, otherwise the result is invariably a series of unsightly marks on the panel, from the serrations of

the jaws. Having mounted and drilled the panel, the next procedure is the layout of the components on the baseboard. The aerial coil unit is placed behind the 30 ohm. rheostat with the R.F. valve socket behind condenser C1. The inter-stage R.F. transformer is mounted behind the filament switch with the neutralising condenser in between the R.F. valve socket and this coil unit. Owing to the ample length of the baseboard, there is sufficient room for the reader to add his extra stage of audio amplification if so desired, and the layout adopted in this receiver need not thereby be strictly adhered to. The detector valve socket is mounted between the R.F. inter-stage transformer and the Philips transformer with the remaining components arranged as shown. Adjacent to the detector and audio valve sockets are the automatic filament resistors. Eight terminals are required for aerial and earth and battery connections and these are mounted on a strip of Bakelite on the back edge of the baseboard, in the order shown. As in all circuits described in "Wireless Weekly" and "Radio" the wiring should be commenced by attending to the filament circuits first. In any receiver the wiring becomes much easier by first attending to these circuits. Although most of these circuits are described showing the use of a baseboard, there is no reason why the reader should not use a sub-panel mounting. By the use of this much of the wiring may be kept out of the way, and the leads consequently kept much shorter than is usually the case. A lead is taken from the A positive terminal to one side of the battery switch on the panel and from the other side of this switch to one side of each automatic filament resistor and the 30 ohm. rheostat controlling the filament of the R.F. valve. The A negative and B negative terminals are joined together on the terminal strip, and a





lead taken from these to the negative filament terminals of all three valve sockets. The positive terminal of the 4½ volt C battery is joined to this lead, together with terminal two of each coil unit, and the rotor plates of condensers C1 and C3. This lead then continues to the earth terminal. Arrange for a short length of flexible wire for the connection from the aerial terminal to either terminal 3 or 4 of the R.F. coil unit. From terminal 1 of this unit, run a connection to the grid of the R.F. valve and also to the rotor plate of NC and the stator plates of C1. The stator plate of NC is next connected to terminal 3 of the second coil unit with terminal 5 of this unit to the plate of the R.F. valve, with 4 to the B positive R.F. terminal on the strip on the baseboard. From terminal 1 of the second coil unit connect up to the grid of the detector valve through the grid condenser and leak, also to the stator plates of the tuning condenser C3. The plate of the detector valve is next connected to one side of the Radiokes R.F. choke and to the rotor plates of the reaction condenser C2, with the stator plates to terminal 6 of the coil unit. The other side of the R.F. choke is joined to terminal P of the primary of the Philips transformer with terminal B to the B positive detector supply terminal on the terminal strip. From the grid of the audio valve connect to terminal G of the secondary of the transformer and to terminal F connect the negative terminal of the 4½ volt C battery. The filter unit is wired up as shown in the diagrams with the plate of the audio valve connected to one side of the A.W.A. choke; which is connected through the .006 fixed condenser to one side of the single circuit jack, the other side of the choke being connected to the B positive amplifier supply terminal on the strip. Lastly, join the other side of the jack to the B negative terminal, which is common with the A negative and earth. Many combinations of valves may be used with this circuit, but in the actual test of the receiver Osram 6 volt valves were found very suitable. These consist of a D.E.L. 610 for the R.F. stage with a D.E.P. 610 for the detector and audio stages respectively. Although the D.E.P. 610 is not primarily designed for use normally as a detector valve, it is found that it gave better operation, as the impulse from the R.F. stage was found to be rather heavy and inclined to overload the D.E.L. 610 detector valve which was first tried. The R.F. valve should have a plate voltage of 60, with the same voltage on the detector valve. The voltage for the audio amplifier may vary from 90 to 120 volts. The overall efficiency and selectivity of the cir-

cuit of the Fidelity Three will be found to be very high, and for those readers who have not yet given the Solodyne circuit consideration, it will be found an instructive stepping stone. It was not expected that inter-State stations would be received in the loud speaker with any startling performance, but the reverse was the case, and no trouble was experienced in separating 3LO from 2BL. The reader may carry out an interesting test, proving the value of shielding the R.F. portions of the circuit. This is possible by means of the removable shields enclosing the coils. Tune in an inter-State station such as 3LO by means of the headphones or speaker, and then remove the shields from the coils. It will be found that immediately the

receiver will become "broad" due to pick-up from the local station by the coils. Replacing the shields will restore the selectivity of the circuit. A simple little test such as this is convincing proof of the absolute necessity of efficient shielding, and it is only by this in common with many other circuits that modern reception of the high order obtainable to-day is possible. Although the Solodyne circuit is now well known to readers, it is proposed to carry out an exhaustive test of this ever-popular combination, using the LEWCOS kit. Judging by the efficiency of the Fidelity Three, the performance should be exceptional. On the conclusion of the tests the resulting receiver will be placed before "W.W." readers for their benefit.

## 12 Reasons Why I Like 2FC

"FIRST, you must understand that I am nearly 87 years of age. My doctor tells me to remain at home, hence I spend many hours listening-in. Therefore, my remarks are founded on long experience, listening practically to 2FC only."

Thus Mr. William Beaumont, of Charles Street, Lidcombe, writes to a Sydney broadcasting station. The octogenarian continues:—

"1st. Your musical numbers from records are beautiful, with a wide range, calculated to please the ideas of the varied musical persons who listen in, particularly myself.

"2nd. The many times you broadcast the plays from the theatres are very pleasing, and must be a source of pleasure to such as myself—seldom from my home—and those who have a wireless set in the back-blocks of New South Wales.

"3rd. The various readings given, and broadcast by you, are very instructive and interesting.

"4th. The musical items given by your numerous artists are very good; many of them very superior, and help one to pass spare hours very pleasantly.

"5th. The summary items from the 'Sydney Morning Herald' and 'Evening News' are very interesting, and give the opportunity to listeners-in, everywhere in Australia, to keep abreast of the times.

"6th. The Stock Exchange reports are calculated to keep the minds of your listeners fully alive to what is going on in the capitalistic world, and give a good guide to those who have cash to invest, where to do so.

"7th. With respect to football, cricket, golf, tennis, etc., the results

from these contests are so regularly broadcast that the most ardent supporters must be amply rewarded.

"8th. The gardening and cookery instructions are given excellently. Nearly every word broadcast by you is heard distinctly, and is very interesting and instructive. Madame G., who talks on 'Listeners-in', would be more interesting if she gave her ideas by speaking much slower—in fact, very much slower.

"9th. The Race Commissioner is a model of perfection. I never go to a race meeting, or bet on a race, but I listen-in with very great pleasure to the dignified and instructive manner in which he describes in detail each race—as it occurs—so that listeners all over Australia can be certain of every particular of each race, as it occurs. To the racing public, your Commissioner is an excellent example of what information should (and how) be given.

"10th. The many special items (including the latest, Madame Melba), are very superior, and those broadcast by 2FC during the past year have enabled me, and your numerous listeners, to hear the best of singers and musicians, at a nominal expense (a wireless set and license fee).

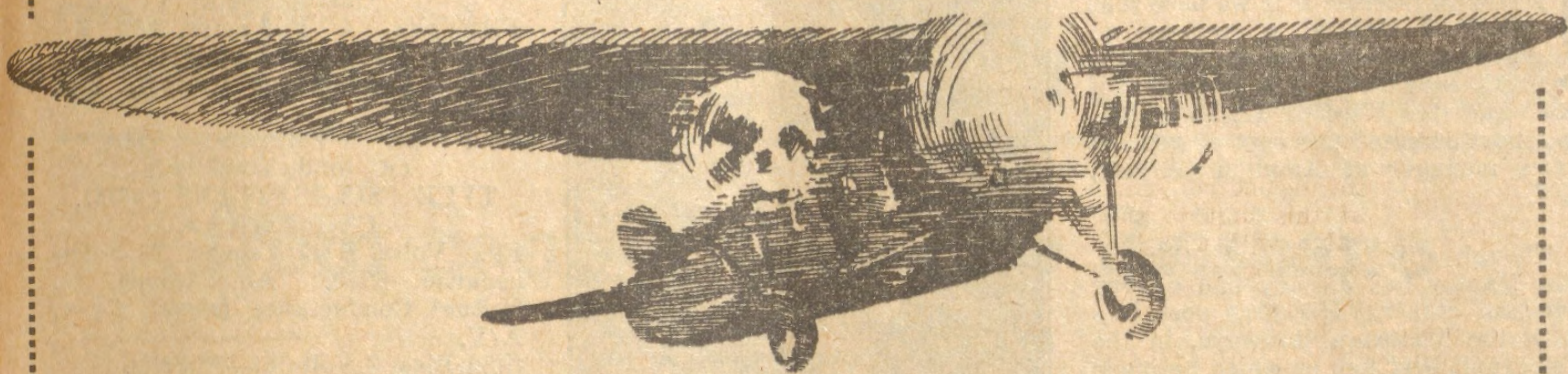
"11th. I cannot close this letter without again complimenting your announcers for the gentlemanly, and kindly, and patient manner in which they carry out their duty, which to me is a daily pleasure, scattering my former life when bereft of a wireless set.

"12th. In conclusion, I wish 2FC every success.

"P.S.—Kindly give your Commissioner my appreciation of the lucid manner he describes the races."

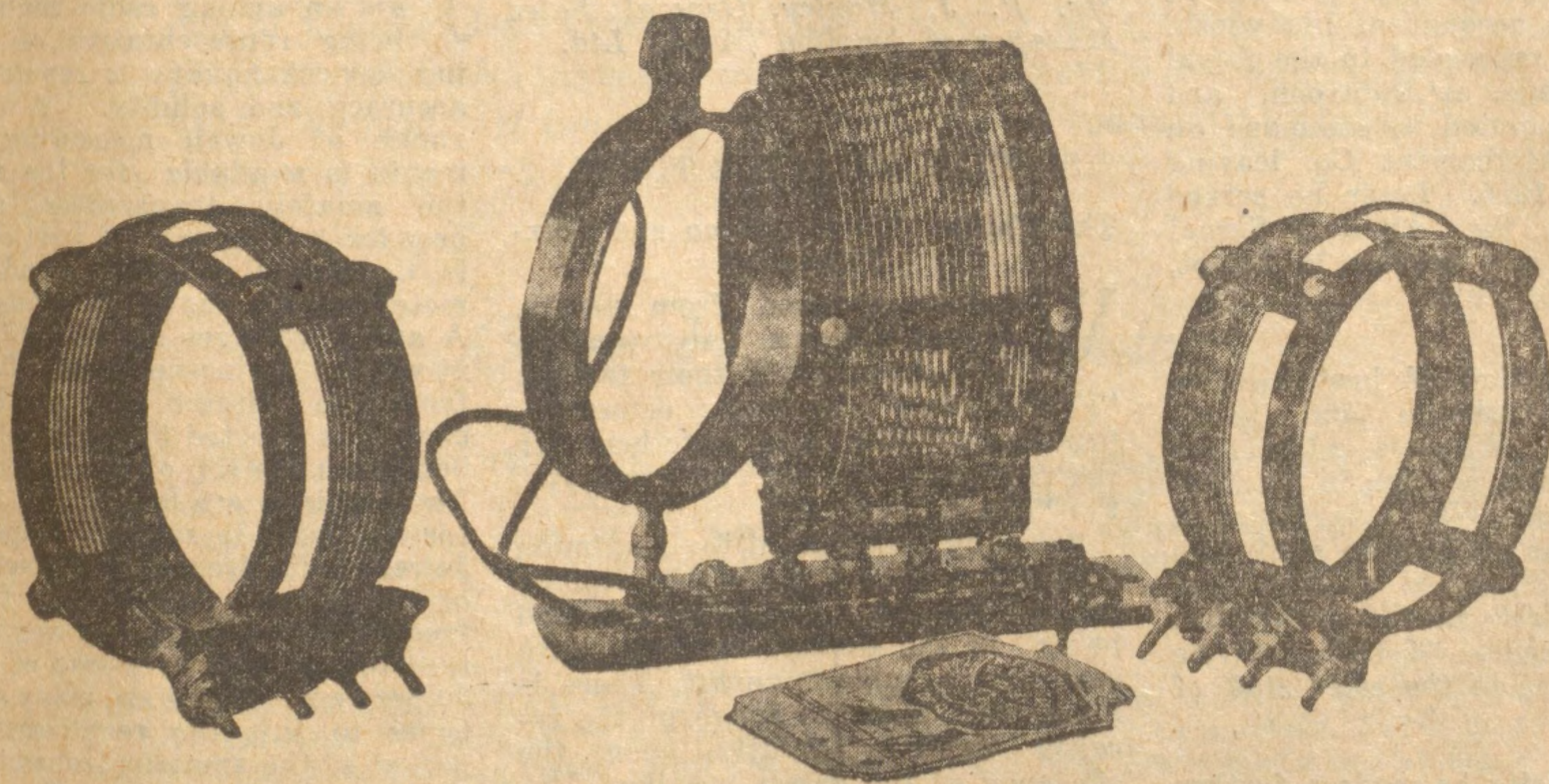


# Kingsford-Smith's Epic Flight



was followed by all Australia per medium of

## Radiokes Short-Wave Kit



Happy owners of S.W. Receivers built from Radiokes Short Wave Tuner Kits were able to follow the very human and intensely interesting messages direct from the Southern Cross.

Build your short wave receiver right away, and don't miss the next thrill! More are in the air.

Radiokes is the finest short wave kit in the world — covers the greatest wave-length range, 15-130 metres. Robust and accurate of construction, beautifully finished and *perpetually guaranteed* for £2/15/- per kit.

**Obtainable from all good dealers everywhere.**



# TRADE PAGE

## MR. P. J. MANLEY.

It is with interest that we note that Mr. P. J. Manley, a well-known figure in the local radio industry, formerly assistant sales manager of Amalgamated Wireless (A/sia), Ltd., has now accepted the post of general sales manager of Amplion (A/sia), Ltd.

Though still in the early thirties, Mr. Manley has already had a very eventful career. His first post was with the Victorian Railways, in the Telegraph Division, of which he made a close study of the theoretical problems connected with present-day telephony and telegraphy.

Then came the Great War. At the outbreak, Mr. Manley held a commission in the 26th Co. Royal Engineers, but was ineligible for one in the A.I.F. on account of his youth. He, however, proceeded to the Royal Military College, at Duntroon, and later was appointed to command an Infantry Reinforcement Co. leaving Australia in 1915. Later he served as captain in the Artillery Signal Service. He saw service in Egypt, France, and Belgium.

At the cessation of hostilities he returned to Australia and joined Amalgamated Wireless, Ltd., as wireless operator, serving in the Mercantile Marine. Whilst in America in 1923 he was enabled to study the broadcasting situation, gaining information which proved invaluable, when in November of that year he was transferred to the sales staff of A.W.A.

In this capacity he made a further trip to America in 1926 for the sole purpose of surveying the conditions of the Radio situation there, visiting such well known radio strongholds as San Francisco, Chicago, New York and Boston. Numerous broadcasting stations were visited, and Mr. Manley was thus able to render himself completely au fait with American practice.

In selling Amplion products, Mr. Manley will be quite at home, since he was one of the first salesmen in Australia handling these goods and his long experience of them has engendered a confidence which will stand him in good stead in his new sphere.



Mr. P. J. Manley, General Sales Manager of Amplion (Aust.) Ltd.

### SPECIAL DETECTOR TUBES.

#### The Philips "Four-Fifteen and "Six-Fifteen."

WE have received from Messrs. Philips Lamps (Australasia), Ltd., samples of their famous "Four-Fifteen" special detector—first audio "Miniwatt," together with the recently added six volt prototype, the "Six-Fifteen."

Specially constructed for maximum sensitivity, they are all that can be desired for the detector socket, and bring in the distant stations with really remarkable "punch." There is little doubt that the range of the receiver depends greatly upon the efficiency of the detector valve. Unless real signals are fed to the audio amplifier you cannot get loud speaker results on D.X. stations.

The "Four-Fifteen" and "Six-Fifteen" have a filament consumption of only .08 and are, therefore, most economical. The amplification factor of fifteen is common to both, but the impedance, which is uncommonly low, varies slightly. That of the "Four-Fifteen" is 7500 and the "Six-Fifteen" 6250. Though designed primarily for the detector socket, they are also highly desirable for the first audio stage, especially when used in conjunction with the new silver cored Philips Transformer, when an overall amplification of 45 results.

We give the characteristics of both types hereunder.

#### TYPE "FOUR-FIFTEEN" (A415).

##### Characteristics:

Fil. Volts, 4 Fil. amps. .08. Impedance 7500, Amplification, 15. Mutual Conductance (slope), 2 m. A/V.

Grid Bias. 3 Volts at 150 Volts.

(As audio amplifier.)

#### TYPE "SIX-FIFTEEN" (A615).

##### Characteristics:

Fil. Volts, 6 Fil. amps. .08, Impedance 6250, Amplification, 15. Mutual Conductance (slope), 2.4 m. A/V.

Grid Bias, 3 Volts at 150 Volts.

(As audio amplifier.)

On test, both these tubes gave remarkable results.

## Jewell Instruments

JEWELL instruments are well known among radio engineers as being representative of measuring devices holding a reputation for accuracy and solidity. A complete range of Jewell measuring instruments is available for the scientist, the amateur transmitter, and the broadcast listener. Of particular use is the Jewell double reading volt meter, which shows at a glance the A and B voltages supplied to any set in which it is incorporated. To switch from one circuit to another, the change is effected by means of a push button on the top of the meter flange. The readings are 0 to 7, and 0 to 150 for A and B supply respectively. Jewell radio frequency ammeters are of the thermo-coupled type for high frequency readings, and are guaranteed to stand an over-load of at least 30 per cent. There are many different types to suit the requirements and pocket of the amateur transmitter, including millimeters of varying ranges. Details of the comprehensive list of Jewell apparatus are available from Stromberg-Carlson, Ltd., Berk House, William St., Sydney.

SYD. DINGWALL raises the broadcasting banner on high: "Reading the complaints of some listeners to the programmes broadcast makes us sick. As far as 2FC and 2BL are concerned, they would still be dissatisfied if they could listen to all the entertainments that were on show at all the principal houses in Sydney. Trying to please everybody is a rotten job, and absolutely impossible, as far as common sense people are concerned. Carry on as you are, and if a few cranks squeal, take no notice."



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# *Build the Receiver which Tuned in* **The "Southern Cross" Transmissions**

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## **from San Francisco to Brisbane**

In the June issue of Radio is described the construction of a four valve short wave receiver, using one screen-grid valve, and completely shielded with aluminium. The Technical Editor built this receiver, and with it followed the transmission of the 'plane, "Southern Cross" from one side of the Pacific to the other. The messages were taken down and published by a large morning newspaper. "The receiver is one of the simplest, though not the easiest, I have built, and yet its performance ranks higher than that of the Short Wave Superheterodyne," he said. It tunes in every short wave broadcasting station in the world at a good loud speaker strength.

### *Other Features include*

**THE LAST OF THE WINDJAMMERS:** M. B. Anderson, the plucky Adelaide amateur transmitter, who shipped aboard the "E. R. Sterling" as wireless operator, and arrived 224 days later in London, the vessel having sailed and drifted 25,000 miles in a dismasted condition, tells his experiences in an article, fully illustrated with pictures of the "E. R. Sterling."

**THE MARTIN DUAL THREE:** A three valve broadcast receiver, and a three valve amplifier of astonishing performance and selectivity. This receiver, which is a completely shielded job, tuned in all the interstate and New Zealand stations at loud-speaker strength within one mile of 2BL, and using a screw-driver for an aerial.

**THE FUTURE OF THE PHONOGRAPH:** A long article by T. P. Watson, giving full instructions how to convert your gramophone into an electrical reproducing unit.

**WEATHER MAPS BY RADIO:** A full description of the Jenkins picture transmitter, with its practical application to navigation at sea.

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# **JUNE RADIO on Sale this week**

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# Looking after the Audio End of Receiver

*With Particular Reference to Philips Transformers and Power Valves.*

(By R. K. Blackwell.)

*It is not long ago since the coupling of an "R" type tube with a transformer—which we would to-day call poor quality—constituted an ideal audio-amplifier.*

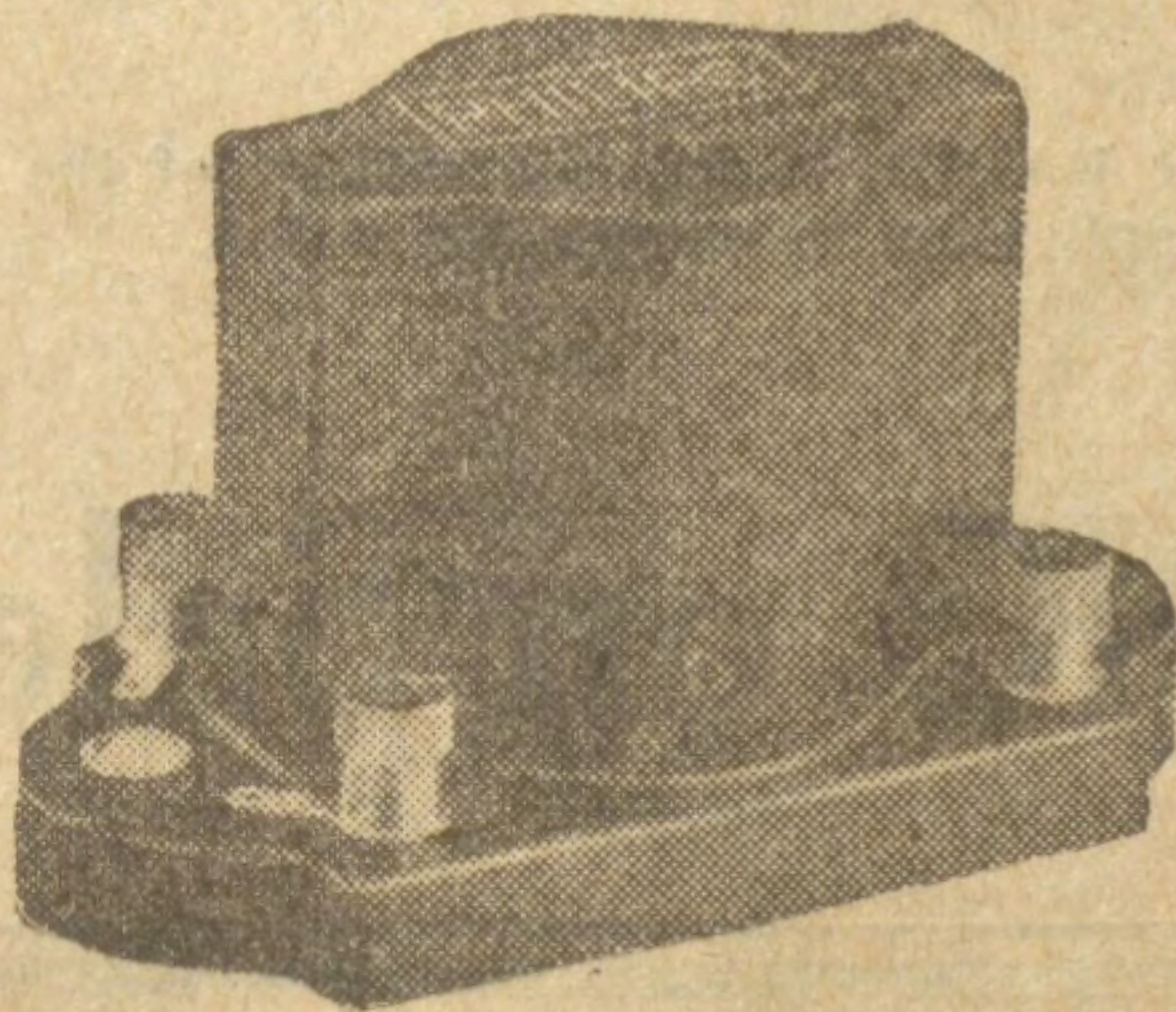
THIS was connected to a speaker which was very efficient on the middle, but deficient on the upper and lower frequencies, so that nearly any type of tube and transformer gave much the same audio quality. As time went on, manufacturers realised that, to handle low frequencies, the impedance of the transformer primary should match the impedance of the tube preceding it at that particular frequency. Laboratories then co-operated, and succeeded in reducing the impedance of the tube, and increasing that of the transformer primary, with the result that tonal quality gradually improved. The next trouble was the last valve, which, up till this time, had a grid swing of about 4-9-volts. Scientists once again started research, and the impedance of the tube was considerably lowered, and, as a result, a much larger grid swing was obtained. The weakest point was then discovered to be in the reproducer. The standard type was quickly changed from horn to cone, thus permitting the reproduction of both high and low frequencies. Startling advances about this time placed the reproducing unit on a better quality basis than the amplifier. Because of the tendency for a sensitive mechanism, coupled to a very light and non-resonant cone, to show up any defects in the electrical energy fed into it, it was realised that amplifiers must be further improved before really good reproduction could be obtained. The average amplifier at this time had a rather distinct "cut-off" at about 5000 cycles, which is equal to approximately one tone higher than the topmost limit of the piano, and this caused all the harmonics and over tones above this limit to be lost. As most reader will realize, this missing portion constitutes the "brilliancy" which is so lacking in the average broadcast receiver.

Let me point out, at this stage, that this "cut-off" was not accidental, but was purposely introduced, primarily to eliminate high-pitched heterodyne whistles, which are predominant in the U.S.A., the reason being that the number of broadcast stations by far exceeds the number of "channels" available. Stations are grouped so closely that small deviations in carrier frequency cause he-

terodyne whistles with the stations on adjacent frequencies.

It remained for the laboratory of Messrs. Philips Radio to produce a perfect audio combination, the main units consisting of the type 4003 transformer, with "four-fifteen" first stage audio amplifier, and the type B405 power tube.

The 4003 is the biggest scientific advance in transformer manufacturing of recent years. The core consists of a very small assembly of laminations, which are composed of a new iron alloy. The saturation coefficient is probably the highest yet reached in a commercial production, and this, combined with other qualities, enables the transformer to give remarkable results, which, on the curve, shows practically a straight line up to the highest audible frequencies, in the region of 10,000 cycles. Low-note reproduction, which is equal to that of any other transformer, has also been obtained and when this transformer is used, following a "four-fifteen" or "six-fifteen," the remarkably high step-up of 45 per stage is obtained. Probably the most revolutionary advance in the manufacture of this transformer is the incorporation of a pure silver primary. This was used for two reasons; firstly, because of the non-corrosive properties of silver, corrosion being the cause of 90 per cent. of the failures commonly called "burn outs" in audio transformers. Secondly, the use of this silver winding enabled the primary resistance to be considerably lowered, while keeping the impedance high, and allowing a greater effective plate voltage on the amplifier tube than when using other types of transformers.



The two innovations mentioned, namely, the new iron-alloy core and pure silver winding, enable the dimensions of the transformer to be reduced considerably, and, whereas formerly, we were impressed with the fact that transformers of good quality had also to be of large dimensions, this is no longer the case, as the transformer mentioned is probably the smallest, and yet undoubtedly the best, at present manufactured. The compactness of the transformer allow its being fitted in the smallest of sets, and the spacing between adjacent transformers is of no importance. They may be grouped so closely that the moulded bakelite bases are touching, and still no "feed-back" results; this is due to very small leakage losses in the core.

The "four-fifteen" is the latest advance in first stage audio amplifier tubes. It has the very high amplification of 15 which allows a large step-up in the tube, where no distortion can result if plate and grid voltages are correct. This accounts for the comparatively low ratio of 3-1 which exists in the Philips audio transformer. The impedance of the tube has been kept to the very low figure of 7500 ohms in the case of the "four-fifteen," whereas the "six-fifteen" has been further reduced to 6250 ohms—allowing for an even greater transfer of energy when using the "six-fifteen." The permissible audio input to this tube is comparatively low, but the step-up obtained is so high that any existing power valve, when used in the last stage, will run at full capacity whilst the "four-fifteen" is still at approximately 50 per cent. of full load; so that, in a well-designed audio amplifier, using a "four-fifteen" as a first stage tube, although the grid bias appears low, the power tube will always be the first to overload.

## Power Tubes.

The general trend in power tubes has been towards lower impedance, to the detriment of amplification factor, but Philips has overcome this deficiency, in producing the latest type of power amplifier, namely B405. The amplification factor, as the type number implies, is five, which is remarkably high for a power tube, whilst the impedance has been reduced to the abnormally low value of 2100 ohms.



This gives a slope of 2-4 Ma/V, which is after all, the figure of merit where power tubes are concerned. In the average power tube, the slope varies from .6 to 1.5, and in isolated cases to 2 Ma/V. The low impedance mentioned gives the tube a large power handling capacity, combined with a comparatively low grid bias (18 volts at 150 volts plate), which is due to the high amplification of the tube.

A super-power tube in the six-volt class has also been produced, namely, the C603. The amplification factor of this tube is 3.3, whilst the impedance has been kept down to 1650 ohms, giving a slope of 2 Ma/V. This tube is outstanding in its class, as in former types the amplification factor has been about 2.8, whilst the impedance has registered about 2100 ohms, and the plate and grid voltages necessary were respectively 180 and 40 volts. With the type C603, these voltages have been reduced to 150 and 27 volts, whilst the undistorted audio output has been slightly increased.

A further advance in power tubes is the introduction of the type B409, which, as the type number denotes, is a 4-volt tube, with an amplification factor of 9, combined with an impedance of 4500 ohms, giving a slope of 2 Ma/V. This tube is applicable to sets where a maximum gain in the last stage is essential, and the volume of audio output required is not abnormal, meaning that when supplied with 135-150 volts plate potential, the undistorted output will be more than sufficient for ordinary household use. This, combined with the very high gain before mentioned, gives the tube a field hitherto untouched in the 4-volt class.

OWING TO THE DIFFICULTY of the "Turandot" music, and the time required in consequence for its adequate preparation, the date of Mr. Roland Foster's lecture-recital on this opera was postponed from 14th June, and will now be given on Sunday evening, July 15th. Mr. Foster, who has given a very comprehensive series at 2FC on operas which will be included in the forthcoming season, was a former student of the famous Guildhall School of Music, London. He has been Professor of Singing at the N.S.W. State Conservatorium of Music since its inception, and has adjudicated at many musical competitive festivals, including Wellington (N.Z.), the Queensland National Eisteddfod, and the 1928 Eisteddfod at Ballarat.

## Women's Session.

(Conducted by Dorothy Jordan, 2BL.)

**Preserving Citrus Fruits.**—This recipe for making marmalade will serve to answer many requests from listeners-in:—Lemon marmalade is made this way: To a fair-sized lemon, allow 1-pint of water and  $\frac{3}{4}$ -lb. of sugar. Slice lemon thinly, remove pips. Boil the water, and pour it over the fruit, and leave all night. Next day, boil quickly for about one hour, or until the skins are tender. Add sugar, and boil for about two hours.

**Preserving Kumquats.**—Clip (not pull) the fruit from the trees; remove buttons, wash in clear water, and place in a receptacle, containing clear water. Let fruit come to a gentle boil, then throw off water, and add more cold water, covering fruit thoroughly. Allow to simmer gently for half an hour, and then again pour off water. For the third time, add sufficient cold water to cover the fruit; then add  $\frac{3}{4}$ -lb. sugar to every lb. of fruit. Allow them to cook gently, until the kumquats can be pierced with a straw, and have become as nearly transparent as possible, taking care that they do not cook too rapidly, otherwise, they will crack and burst open, the object being to preserve them whole. When thoroughly done, place in heated jars immediately, not allowing the preserve to cool, and seal at once.

**Hints to Remember.**—In making jam from citrus fruits, water is added to soften the fruit; therefore, fast boiling is necessary, to boil out the water by evaporation, and, in addition, the color is retained, and much time saved. The surface of jam that has been insufficiently cooked will not be dry when cool, neither will there be a glazed surface, but the jam will be moist and watery on top. The glaze and firmness are generally guides to well-cooked jam.

**Sealing-wax Craft as an Antidote.**—One of our many radio fans writes in this manner:—"You will be interested to know that for some years I have been more or less of an invalid, suffering from 'nerves.' Listening-in one day to Miss Hoyles, who talks on the sealing-wax craft, I suddenly surprised my family, by telling them I would like to do some of this work. Well, to make a long story short, I have become an ardent pupil of this lady, and now, my doctor says he needn't visit me any more, since I have become so devoted to this work I have forgotten all about my 'nerves,' and I wonder why I ever thought 'nerves' were so very important."

To pass from sealing-wax to cabbages, another writer says:—"When your advice or suggestions have been followed, then has an ordinary, and, perhaps, insipid dish passed from the commonplace to a 'thing of beauty and a joy' both to eye and palate alike."

**The Old Ginger Jar.**—Any quaintly shaped jar, like your old ginger jar, can be decorated with gold sealing-wax paint, and then, as a finish, mould brightly-colored flowers on to the side.

**For the Kiddy's Party.**—For a kiddy's party, make a large crepe paper boat; fill with quaint little presents, and attach a decorated name-card to the little gift. When each little guest takes his place at the table, he pulls out his own little present, and great excitement and fun is the result.

**The Backward Child.**—Miss Marva Temple is continuing her very interesting talks on "What Can be Done for the Backward Child." Educationists the world over, are realising that the problem of the backward child must be faced, and solved. Miss Temple uses all kinds of devices to amuse and interest the little one. His observation can be stimulated by cut-out pictures, stamped designs, and playing blocks. Miss Temple holds that these afflicted members of the human family can be taught more by play, and simple games, than by what is known as work.

**Child Welfare.**—During the League of Nations Conference, for the last two years, a special committee (mostly composed of women delegates), devoted quite a lot of time to the child welfare question. How this very important national matter has developed and grown will be shown by Mr. Ross Douglas, during his talk on Friday afternoon, at 3.30. The lecturer will explain the laws of adoption, laws relative to child preservation, and the responsibility of the State concerning neglected children.

A LISTENER from Ashfield has something to say to 2FC about the much maligned broadcasting programmes: "Permit me, on behalf of the members of my household, to express our appreciation of your programmes. In these days of adverse criticism, it is no doubt pleasing to know that the general high standard of your transmissions is noted and gives entertainment to at least some listeners."



# 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	SOUTH AMERICA.		
2GB—Theosophical B'casting, 29 Bligh St., Sydney .....	316	3000	1ZQ—L. R. Leith, Auckland ...	330	50	LOS—Municipality of Buenos Aires, Buenos Aires, Argentine .....	291.2	
2KY—Trades and Labour Council, Goulburn St., Sydney .....	280	1500	1ZY—N. C. Shepherd, Whangarei,	250	15	SQIA—Radio Sociedade de Rio de Janeiro, Rio de Janeiro, Brazil .....	400	
2UW—2UW Radio Ltd., 213 Elizabeth St., Sydney .....	267	500	2YA—Radio B'casting Co., Wellington .....	420	5000	HAWAII.		
2UE—Electrical Utilities, Ltd., 619 George St., Sydney .....	293	250	2YK—2YK Limited, Wellington ..	292	120	KGM—"Honolulu Advertiser," Honolulu .....	270	500
2MK—Mockler Bros., Hawick St., Bathurst .....	275	250	2YF—Radio Club, Palmerston North .....	200	5	JAPAN.		
2HD—H. A. Douglas, King St., Newcastle .....	288	100	3YA—Radio B'casting Co. of N.Z., Christchurch .....	306	500	JOAK—Tokyo Central B'casting Co., Tokyo, Japan .....	375	1000
2BE—Burgin Electric Co., Ltd., 340 Kent St., Sydney .....	316	100	4YA—Radio B'casting Co. of N.Z., Dunedin .....	463	750	JOBK—Osaka Central B'casting Co., Osaka, Japan .....	385	1000
Victoria.			4ZB—Otago Radio Association, Dunedin .....	300	50	JOCK—Nagoya Central B'casting Co., Nagoya, Japan .....	360	1000
3LO—B'casting Co. of Aust., Ltd., 120a Russell St., Melb. ....	371	5000	GREAT BRITAIN.			JODK—Keijo B'casting Co., Keijo, Japan .....	345	1000
3AR—Associated Radio of Aust., Ltd., 44-46 Elizabeth St., Melb. ....	484	1600	2LO—British B'casting Co., Savoy Hill, London .....	361.4	3000	DUTCH EAST INDIES.		
3UZ—O. J. Nilson & Co., Bourke St., Melb. ....	319	100	2RN—Government Radio Station, Dublin, Ireland .....	319.1	1500	JFC—Bataviasche Radio, Jereen- inging, Batavia .....	220	40
3DB—Druleigh Business College, Melb. ....	255	500	5XX—British Broadcasting Co., Daventry .....	1604.3	5000	PHILIPPINE ISLANDS.		
Queensland.			UNITED STATES OF AMERICA.			KZRM—Radio Corp. of The Philippines, Manila, Philippine Islands .....	413	1000
4QG—Queensland Govt. Radio Service, Brisbane .....	385	5000	KDKA—Westinghouse Elec. and Mfg. Co., East Pittsburg, Pa. ....	315.6	50000	KZRQ—Radio Corp. of the Philippines, Manila, Philippine Islands .....	400	1000
4GR—Gold Radio Service, Margaret St., Toowoomba .....	294	100	KFI—Earle C. Anthony Inc., 1000 So., Hope St., Los Angeles .....	468.5	5000	KZKZ—Radio Corp. of the Philippines, Manila, Philippine Islands .....	270	500
South Australia.			KGO—General Electric Co., Oakland, California .....	884.4	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., 1870 Krameria St., Denver, Colo. ....	825.9	5000	INDIA.		
5DN—5DN Pty., Ltd., 2-4 Mont- perier St., Parkside .....	313	500	WBZ—Westinghouse Elec. Co., Hotel Kimball, Springfield, Mass. ....			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	SOUTH AFRICA.		
Western Australia.			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
Tasmania.			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	VMG—Samoa .....	33
2YT—Poldhu, England, .....	25, 32, 92, 94	PCLL—Phillips Lamps, Ltd., Kootwijk, Holland .....	32.5, 46	JAVA.	
2NM—Gerald Marcuse, Queen's Park, Caterham, Surrey, England .....	32.5 and 28 metres	PCTT—Phillips' Lamps, Ltd., Kootwijk, Holland .....	21	ANF—Malabar, Java .....	56
UNITED STATES.		PCMM—Phillips' Lamps Ltd., The Hague, Holland .....	25	JFC—Bataviasche Radio Vereen- inging, Batavia, Java .....	220
2XAG—General Electric Co., New York, U.S.A. ....	14, 16, and 42	PCPP—Phillips' Lamps Ltd., Kootwijk, Holland .....	27	ANDIR—Bandoeng, Java .....	38.5
NXF—Bellevue, Annacosta D.C.,	16, 17, 20.8, 84, 81.5, 71.3, 54.4, 50	PCUU—Phillips' Lamps Ltd., The Hague, Holland .....	42	ANE—ANE Radio, Malabar, Java .....	32, 31.26
2XAF—General Electric Co., Schenectady, New York, U.S.A. ....	32.77, 32.0	UNION OF SOVIET SOCIALIST REPUBLICS.		COMMERCIAL STATIONS.	
WCY—Schenectady, N.Y. ....	32.79	RFN—U.S.S.R., Moscow .....	29	VIA—Amalgamated Wireless (A/sia, Ltd.), Adelaide ...	21, 32, 50
NPG—San Francisco, Calif. ..	40, 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	ITALY.		VJZ—Amalgamated Wireless (A/sia, Ltd.), Rabaul .....	17, 21, 32
WGN—Western Electric Co., Long Island, N.Y. ....	75	IMI—Unione Radiofonica Italiana, Milan .....	45 metres	VIM—Amalgamated Wireless (A/sia, Ltd.), Melbourne, ..	20, 21, 31.8, 49
WLW—Crossley Radio Co., 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).	SOUTH AFRICA.		VIP—Amalgamated Wireless (A/sia, Ltd.), Perth .....	21, 32, 50
WJZ, WJZ Radio, Bound Brook, N.J., U.S.A. ....	Various wavelengths	JB—Johannesburg Broadcasting Co., Cape Town, South Africa .....	20 and 25	VIY—Amalgamated Wireless (A/sia, Ltd.), Melbourne ...	25
WGY, WGY Radio, Schenectady, N.Y., U.S.A. ....	15 to 100 metres	JAPAN.		VIZ—Amalgamated Wireless (A/sia, Ltd.), Melbourne ..	25.72
2XAC, 2XAD, 2XAF (as above) for WGY.		JIPP—JIPP, Tokio, Japan .....	20	2ME—Amalgamated Wireless (A/sia, Ltd.), Sydney .....	28.5
WHAM and 8XAC, WHAM, Radio, Rochester, N.Y., U.S.A. ....	Various wavelengths	JIAA—Iwatsuki, Japan .....	79	3ME—Amalgamated Wireless (A/sia, Ltd.), Melbourne ..	31.5
2XG—Western Electric Co., New York, U.S.A. ....	16 and 23.	JKZB—JKZB, Tokio Electric Co., Tokio, Japan .....	20	SHIP STATIONS.	
INDO CHINA.		GERMANY.		GBE—S.S. "Niagara" .....	37, 23
HVA—Hanoi, Indo China .....	31.5	POX—POX, Nauen, Germany ..	70	GDZV—S.S. "Makura" .....	23, 37
		POZ—POZ Radio, Nauen, Ger- many .....	19 metres	MTN—S.S. "Tahiti" .....	37, 23
		SUVA.		GDVB—S.S. "Aorangi" .....	37, 23
		VPD—Suva Radio, Amalgamated Wireless (A/sia), Ltd. ....	37.5	VZDK—S.S. "Jervis Bay" .....	37
				PMZ—S.S. "Tasman" .....	29, 51
				ARCX—S.S. "Nielsen Alonso" ..	30.4



# BROADCASTING PROGRAMMES

## For the COMING WEEK

### Friday, June 22

#### 2FC, SYDNEY.

#### Farmer's Broadcasting Service.

#### Wave Length, 442 Metres.

#### EARLY MORNING SESSION.

- 7 a.m.—"Big Ben" and announcements.
- 7.5 a.m.—Studio Music.  
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.
- 10.50 a.m.—A talk by "Delisse."
- 11 a.m.—"Big Ben." Studio Music.
- 11.15 a.m.—A.P.A. and Reuter's Cable Services.
- 11.10 a.m.—Studio Music.
- 11.15 a.m.—A talk on Home Cooking and Recipes by Miss Ruth Furst.
- 11.30 a.m.—Close down.

#### MIDDAY SESSION.

- 12 noon—"Big Ben" and announcements.
- 12.2 p.m.—Stock Exchange, first call.
- 12.3 p.m.—Official weather forecast, rainfall.
- 12.5 p.m.—Studio Music.
- 12.10 p.m.—Summary of "Sydney Morning Herald" news service.
- 12.15 p.m.—Rugby Wireless News.
- 12.20 p.m.—Studio Music: Dance Records.
- 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.—Gwen Gillard, soprano.
- 1.35 p.m.—Studio Music: Popular Records.
- 1.55 p.m.—Gwen Gillard, soprano.
- 2 p.m.—"Big Ben." Close down.

#### AFTERNOON SESSION.

- 3 p.m.—"Big Ben" and programme announcements.
- 3.5 p.m.—A recital of "Parlophone" Records.
- 3.30 p.m.—Muriel Watt, contralto:  
"The Winds are Calling". (Ronald).

- 3.34 p.m.—Rene Birkett (pupil of S. Vost Janssen), violin solos:  
"Pibroch" (Mackenzie).
- 3.44 p.m.—Persia Rutter, soprano.
- 3.48 p.m.—Rene Birkett, violinist (pupil of S. Vost Janssen):  
"A Morning Song" (Caise).
- 3.54 p.m.—Phyllis Broadbent, soprano:  
"Wonderful World of Romance" (Haydn Wood).
- 3.58 p.m.—Dorothy Dewar, soubrette:  
Popular items.
- 4.5 p.m.—Rene Birkett, violinist (pupil of S. Vost Janssen):  
"Berceuse" (Faure).
- 4.10 p.m.—Muriel Watt, contralto:  
"I'm a Rover" (Illingworth).
- 4.14 p.m.—Dorothy Dewar, soubrette.
- 4.20 p.m.—Persia Rutter, soprano.  
"Little Lady of the Moon" (Eric Coates).
- 4.25 p.m.—"Tittle Tattle" talk by "Tessa."
- 4.35 p.m.—Phyllis Broadbent, soprano.
- 4.40 p.m.—Studio Music.
- 4.45 p.m.—Stock Exchange, third call.
- 4.47 p.m.—Studio music: Popular "Parlophone" 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.  
Note: During this session the winners of the Children's Glassing Competition will be announced.
- 6.25 p.m.—Children's Music.
- 6.30 p.m.—Late sporting news.
- 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.—The 2FC Racing Commissioner: Talk.
- 7 p.m.—"Big Ben."  
From the Hotel Australia:  
Dinner music by the Hotel Australia Orchestra.
- 7.15 p.m.—From the Studio:  
Musical items.
- 7.30 p.m.—"Evening News" late news service.

#### EVENING SESSION.

- 7.40 p.m.—Programme announcements.
- 7.45 p.m.—C. Price Conigrave, in continuation of his series of talks on Northern Australia, will deal this evening with "Wild game hunting in the far North."
- 8 p.m.—Sydney Calland, baritone:  
(a) "The fairy tales of Ireland" (Coates).  
(b) "My desert flower," from "Chu Chin Chow" (Norton).
- 8.8 p.m.—Lionel Lawson, violin solos.
- 8.17 p.m.—John Dellore, tenor.
- 8.25 p.m.—"To-night's visitor."
- 8.40 p.m.—Sydney Calland, baritone:  
(a) "The Silent Forest" (Torrens).  
(b) "If to see Thee" (Barry).
- 8.48 p.m.—Lionel Lawson, violinist.
- 8.58 p.m.—John Dellore, tenor.
- 9.6 p.m.—Late weather forecast.
- 9.8 p.m.—A foreword to the next item.
- 9.10 p.m.—From Her Majesty's Theatre, Sydney (by permission of J. C. Williamson, Ltd.):

The second act of "Princess Charming," featuring Kathryn Reece, Olive Sloane, Cecil Kellaway, Reginald Dandy, Peter Gawthorne and Leslie Holland. The play produced by Frederick Blackman.

#### Musical Numbers:

- "Good on Sunday," Leslie Holland and Chorus.
- Solo Dance, Adele Hardwicke.
- Ensemble, Kathryn Reece, Leslie Holland, Reginald Dandy, Chorus and Ballet.
- "Every Little Maid," Kathryn Reece.
- Duet, Kathryn Reece and Reginald Dandy.
- Finale, Principals, Chorus and Ballet.
- 10.20 p.m.—From the Studio:  
Foster and Fay, "Musical Memories."
- 10.30 p.m.—Late weather forecast.
- 10.31 p.m.—The Ambassadors' Dance Orchestra.
- 10.42 p.m.—From the Studio:  
Musical items.
- 10.50 p.m.—The Ambassadors' Dance Orchestra.
- 10.57 p.m.—To-morrow's programme and late news.
- 11 p.m.—"Big Ben."
- The Ambassadors' Dance Orchestra.
- 11.45 p.m.—National Anthem.
- Close down.

### 2BL, SYDNEY.

#### Broadcasters' Ltd.

#### Wave Length, 353 Metres.

#### FRIDAY, 22nd JUNE, 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 "Golf" by Miss Varley, Broadcasters' women's 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 Mrs. Jordan.
- 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."
- 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 the Studio.
- 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.—Gulbransen dinner music.

## SPECIAL COUNTRY SESSION.

- 7 p.m.—G.P.O. clock and chimes.  
Racing resume.  
Australian Mercantile, Land and Finance Co.'s report.  
Weather report and forecast by courtesy of Government Meteorologist.  
Producers' Distributing Society's fruit and vegetable market report.  
Stock Exchange report.  
Grain and fodder report ("Sun").  
Dairy produce report ("Sun").  
N.R.M.A. report.
- 7.15 p.m.—Country news from the "Sun."
- 7.30 p.m.—News from the "Sun."
- 8 p.m.—G.P.O. clock and chimes.  
Broadcasters' Topical Chorus.  
Special Irish night.
- 8.3 p.m.—Broadcasters' Trio.
- 8.10 p.m.—Master Ray Simmons, boy soprano.
- 8.17 p.m.—Medley of Irish reels:  
Mr. T. Coughlan, piper.  
Mrs. P. Reynolds, flute.  
Miss May Reynolds, violin.
- 8.22 p.m.—Mr. Herbert C. Hinchcliffe, baritone.
- 8.29 p.m.—Dorothy Manning and Harry Graham, in song and story.
- 8.39 p.m.—Broadcasters' Instrumental Trio.
- 8.46 p.m.—Miss Linda Hartge, contralto.
- 8.53 p.m.—Miss C. L. Robertson, elocutionist.
- 9 p.m.—G.P.O. clock and chimes.  
Weather report and forecast by courtesy of Mr. C. J. Mares, Government Meteorologist.
- 9.1 p.m.—Mr. C. Dexter, the "Sun's" turf expert, will talk on the prospects of Saturday's racing.
- 9.16 p.m.—Medley of Irish reels.
- 9.21 p.m.—Master Ray Simmons.
- 9.28 p.m.—Broadcasters' Instrumental Trio.
- 9.35 p.m.—Mr. Herbert C. Hinchcliffe.
- 9.42 p.m.—Miss C. L. Robertson.
- 9.49 p.m.—Miss Linda Hartge.
- 9.56 p.m.—Dorothy Manning and Harry Graham.
- 10.6 p.m.—Irish pipes.
- 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.

## MORNING SESSION.

- 10 a.m.—Music.
- 10.10 a.m.—Happiness Talk.
- 10.20 a.m.—Music.
- 10.30 a.m.—Women's session.
- 11.15 a.m.—Close down.

## AFTERNOON SESSION.

- 2 p.m.—Music.
- 2.10 p.m.—Talk.
- 2.20 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.
- 8 p.m.—Opening chorus.
- 8.2 p.m.—2GB Instrumental Trio.
- 8.15 p.m.—Address.
- 8.30 p.m.—Clement Hosking Quartet.
- 8.38 p.m.—Cello solo by Miss Marjorie Kennedy.
- 8.45 p.m.—Vocal Duets by Miss Elsie Brown and Miss Eva Croft.
- 8.52 p.m.—Violin solos by Mr. Dan Scully.
- 9 p.m.—Humorous recital by Mr. Heath Burdock.
- 9.20 p.m.—Clement Hosking Quartet.
- 9.30 p.m.—Pianoforte solos by Miss Thetis Hooper.
- 9.38 p.m.—Humorous items by Mr. Heath Burdock.
- 9.48 p.m.—2GB Instrumental Trio.
- 10 p.m.—Close down.
- FRIDAY, JUNE, 22.

## 2 UW, SYDNEY

Sandel Radio, Ltd.

Wave Length, 267 Metres.

FRIDAY, 22nd JUNE, 1928.

## EVENING SESSION.

- 7 p.m.—Studio items.
- 7.10 p.m.—Where to go session.
- 7.15 p.m.—Dinner music.
- 7.45 p.m.—Dance music.
- 8 p.m.—News items, mails, and shipping.
- 8.15 p.m.—Vocal and instrumental items.
- 8.45 p.m.—Weather report.
- 8.48 p.m.—Request numbers and dance music.
- 9.30 p.m.—Orchestral music.
- 10 p.m.—Close down.

## 3LO, MELBOURNE.

Broadcasting Co. of Aust.

Wave Length, 371 Metres.

FRIDAY, 22nd JUNE, 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.

- 7.40 a.m.—News.
- 8.0 a.m.—Melbourne Observatory Time Signal.
- 8.1 a.m.—Express train information.
- 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.—3LO's CULINARY COUNSELS, or How to Create Creature Comforts with a Minimum of Cash.  
Golden Rules for the Housewife.
- 11.5 a.m.—C. W. DANVERS-WALKER, Secretary of the Alfred Hospital Auxiliaries, will speak on:  
"The Work of the Auxiliaries."
- 11.20 a.m.—Musical Interlude.
- 11.25 a.m.—"AU FAIT."  
"Fashion's Fancies."
- 11.40 a.m.—Musical Interlude.
- 11.45 a.m.—Under the auspices of the Public Health Department:  
DR. FEATONBY, Health Officer of the Department, will speak on:  
"Serums and Vaccines."

## 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.
- 12.20 p.m.—THE GYPSY PLAYERS:  
"In a Rose Garden" (Acciani).  
"Sweet Jasmine" (Besden).
- 12.30 p.m.—FREDA NORTHCOTE:  
Soprano:  
"Little Brown Cottage" (Dickson).  
"Still Unexpressed" (Jacobs Bond).
- 12.37 p.m.—Stock Exchange Information.
- 12.40 p.m.—THE GYPSY PLAYERS:  
"A Memory Garden" (Farman).  
"A Basket of Roses."
- 12.47 p.m.—SENIA CHOSTIAKOFF, Tenor:  
"Elegie" (Massenet).  
With Violin Obligato by Bertha Jorgensen.  
"The Love" (Zuboff).
- 12.54 p.m.—MARION LIGHTFOOT, Steel Guitar:  
"Moorish Dance."  
"Mahina Waltz."
- 1.0 p.m.—Melbourne Observatory Time Signal.
- 1.1 p.m.—THE GYPSY PLAYERS:  
Trio, "Rondo alla Turca" (Mozart).  
"Slow Waltz" (Carsa).
- 1.10 p.m.—Meteorological Information:  
Weather Forecast and Rainfall for Victoria, Tasmania, South Australia, and New South Wales; River Reports; Ocean Forecast.
- 1.17 p.m.—FREDA NORTHCOTE, Contralto:  
"Thoughts" (Fisher).  
"Lie There My Love" (Maccann).
- 1.24 p.m.—MARION LIGHTFOOT, Steel Guitar:  
"Tillha Waltz."  
"Oft in the Stilly Night."  
"Ye Banks and Braes."
- 1.30 p.m.—THE GYPSY PLAYERS:  
"Hearts and Flowers—a New Flower Song" (Moses-Tobani).
- 1.35 p.m.—SENIA CHOSTIAKOFF, Tenor:  
"Come Back to Sorrento" (E. de Curtis).  
Selected.
- 1.43 p.m.—Announcements.
- 1.45 p.m.—Close Down.

## AFTERNOON SESSION.

- 2.15 p.m.—THE STATION ORCHESTRA:  
Selected.
- 2.30 p.m.—Ernest Oram and the Tivoli Theatre Orchestra. Transmission from TIVOLI THEATRE, by permission of Tivoli Theatres Ltd.

## FROM THE STUDIO.

- 3.30 p.m.—THE STATION ORCHESTRA:  
"Andante Religioso" (Thome).
- 3.40 p.m.—FRANCES FRASER:  
The Shrines of England—"York."



- 3.55 p.m.—THE STATION ORCHESTRA:  
"Cloister Meditations" (Spialck).  
"In the Great Beyond" (Broota).
- 4.5 p.m.—MADAME LAMBERT, Soprano:  
"Carminia Valse" (Wilson).  
"Il Baccio" (Arditi).
- 4.12 p.m.—ONE ACT PLAY:  
"THE ARTIST."  
He ..... REX SINCLAIR  
She ..... LOUISE MOOREHEAD
- 4.27 p.m.—THE STATION ORCHESTRA:  
"Elegie" (Massenet).
- 4.32 p.m.—PERCY CODE, Trumpet:  
Selected.
- 4.37 p.m.—THE STATION TRIO (Chas. Taylor, violin; Tasma Tiernan, cello; Les Richmond, piano):  
"Toselli's Serenade."
- 4.42 p.m.—MADAME LAMBERT, Soprano:  
"Aime Moi" (Bombery).  
Air, "Aida" (Verdi).
- 4.49 p.m.—RUPERT HAZEL AND ELSIE DAY:  
"Harmonylarity."

#### NEWS SESSION.

- 5.0 p.m.—"Herald" News Service; Stock Exchange Information.
- 5.15 p.m.—Close Down.

#### EVENING SESSION.

- 6.0 p.m.—Answers to Letters and Birthday Greetings by "Billy Bunny."
- 6.20 p.m.—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.—"BILLY BUNNY" has a story to tell.
- NEWS AND MARKET REPORTS.
- 7.0 p.m.—Official Report of Newmarket Stock Sales by the Association Stock and Station Agents, Bourke-street, Melbourne.
- 7.5 p.m.—"Herald" News Service; Weather Synopsis; Shipping Movements.
- 7.12 p.m.—Stock Exchange Information.
- 7.17 p.m.—Fish Market Reports by J. R. Borrett Ltd., Rabbit Prices.
- 7.19 p.m.—River Reports.
- 7.21 p.m.—Market Reports by the Victorian Producers' Co-operative Co., Ltd., Poultry, Grain, Hay, Straw, Jute, Dairy Produce, Potatoes and Onions; Market Reports of Fruit by the Victorian Fruiterers' Association—retail prices; Wholesale Prices of Fruit by the Wholesale Fruit Merchants' Association; Citrus Fruits.

#### NIGHT SESSION.

- 7.30 p.m.—Under the auspices of the Department of Agriculture, J. BRAKE (Senior Inspector of Agriculture), will speak on: "Wheat Growing—Following Methods."
- 7.45 p.m.—C. J. WILLIAMS will speak on to-morrow's Stadium Event.

#### OUT OF THE PAST.

- 8.0 p.m.—This is the anniversary of the signing of Magna Charta in 1215, also of the Battle of the Piave (Italian offensive), 1918, and of the disaster to the excursion steamer General Slocum, which caught fire in New York Harbour; 1600 lives lost.

#### A MAKER OF HISTORY.

- 8.1 p.m.—On June 15, 1896, D. JAMIESON and his officers, were committed for trial at Bow Street under the Foreign Enlistment Act.

#### MUSICAL INTERLUDE.

"What notes are those without the wall,  
Across the portal sounding?  
Let's have the music in our hall  
Back from its roof rebounding."  
—Thomas Carlyle.

AGNES FORTUNE, Piano:

"Waltz" (Chopin).

8.7 p.m.—MADAME LAMBERT, Soprano:

"Flower Song—Faust."

Request Item.

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

#### WIRELESS WORRIES.

8.18 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.

#### COMMUNITY SINGING.

8.30 p.m.—Community Singing, transmitted from 3LO Studio. (Conductor, G. J. MACKAY), assisted by:

THE GYPSY PLAYERS.

SOLOISTS.

RUPERT HAZELL AND ELSIE DAY.

"Harmonylarity."

SENIA CHOSTIAKOFF, Tenor:

"Evening Bells" (Jaroff).

With Organ Accompaniment by Agnes Fortune.

#### SPORTING.

10.0 p.m.—ERIC WELCH, will speak on to-morrow's Race.

10.10 p.m.—THE STATION ORCHESTRA:  
"Looking Backward."

10.20 p.m.—JOHN D. FRASER, Baritone:  
"The Burning Hours" (Coningsby Clarke).  
Request Item.

10.27 p.m.—THE STATION ORCHESTRA:  
"Three Dances from Henry VIII." (German).

10.39 p.m.—NEWS SESSION; "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:

"When installing chains on the rear wheels, install them on both wheels or none at all. Only one chain may result in a serious accident. Chains on all four wheels help the steering of the car."

10.49 p.m.—THE STATION ORCHESTRA:  
"Drink to Me Only with Thine Eyes" (Old English Song).

10.53 p.m.—JOHN D. FRASER, Baritone:  
"Selection of Moore's Irish Melodies."

11.0 p.m.—Results of the Victorian Railways Institute amateur boxing and wrestling tournament.

#### OUR GREAT THOUGHT:

"The days for deeds are few, my brother,  
Then to-day fulfill your vow;  
If you mean to help another,  
Do not dream it—do it now.  
If you have a kind word—say it;  
Throbbing hearts soon sink to rest;  
If you owe a kindness—pay it—  
Life's sun hurries to the west."

11.1 p.m.—PACK CLOUDS AWAY, AND WELCOME DANCING TIME AT 3LO.  
THE VAGABONDS.

11.40 p.m.—GOD SAVE THE KING.

## 3AR, MELBOURNE

Associated Radio Co.

Wave Length, 484 Metres.

FRIDAY, 22nd JUNE, 1928.

EARLY MORNING NEWS SESSION.

9.0 a.m. to 10 a.m.

MORNING MUSICAL SESSION.

- 10.1 a.m.—Melbourne Concert Orchestra:  
Operatic Selection, "Mignon" (Thomas).  
"Dall' Oriente" (Labate).  
"In Tientsin" (Savino).
- 10.15 a.m.—Jessie Shmith, Contralto:  
"Love Came Cailing" (Zamecnik).  
"I'm Longin' fo' You" (Hathaway).
- 10.22 a.m.—The Radio Ramblers.
- 10.38 a.m.—Jessie Shmith, Contralto:  
"When the Night with Stilly Silence" (Parish).  
"A Fat Little Feller" (Sheridan).
- 10.45 a.m.—Melbourne Concert Orchestra.
- 11.0 a.m.—Tom Semple, Tenor:  
"Visti la Guibba" (Leoncavallo).  
"When the Night with Stilly Silence" (Parish Robertson).
- 11.8 a.m.—The Radio Ramblers.
- 11.25 a.m.—Announcements.
- 11.35 a.m.—Melbourne Concert Orchestra.
- 11.50 a.m.—Tom Semple, Tenor:  
"For You Alone" (Geehl).  
"I'll Sing Thee Songs of Araby" (Clay).
- 11.58 a.m.—The Radio Ramblers.
- 12.14 p.m.—Herbert Sanderson, Baritone:  
"Come to the Fair" (Martin).  
"O Flower of all the World" (Finden).
- 12.22 p.m.—Melbourne Concert Orchestra:  
"Nohecita" (Albeniz).  
"In the Cloisters" (Torrance).  
"Love's Ecstasy" (McElwain).
- 12.37 p.m.—Herbert Sanderson, Baritone:  
"O Star of Eve" (Wagner).  
"Out of the Mist" (Sanderson).
- 12.45 p.m.—The Radio Ramblers.
- 1.0 p.m.—Newmarket Stock Sales; Special "Snap" Progress Reports, direct from the yards, by courtesy of John MacNamara and Co.

#### PANATROPE SESSION.

- Transmitted from Panatrobe House, 252 Collins Street (by exclusive permission of Wills and Paton, Ltd.), on the Brunswick Panatrobe.
- 3.0 p.m.—Trevor May's Australians:  
Fox Trot, "Open" (Robrecht).  
Fox Trot, "Water of Minnetonka" (Ar. Lange).  
Fox Trot, "June" (Ar. Lange).  
Waltz, "Falling in Love" (Meyer).  
Fox Trot, "I Told Them All About You" (Friend).
- 3.15 p.m.—Valerie Walsh, Contralto:  
Selected.
- 3.22 p.m.—Trevor May's Australians:  
Fox Trot, "Are You Happy?" (Ager).  
Fox Trot, "Following You Around" (Kahn).  
Waltz, "Romana" (Wayne).  
Fox Trot, "Dream Kisses" (Jerome).  
Fox Trot, "Samum" (Robrecht).
- 3.40 p.m.—Valerie Walsh, Contralto:  
Selected.
- 3.47 p.m.—Trevor May's Australians:  
Fox Trot, "A Shady Tree" (Donaldson).  
Fox Trot, "Coquette" (Green).  
Waltz, "Ole Virginny's Lullaby" (Pollack).  
Fox Trot, "Half a Moon" (Hanley).  
Fox Trot, "Don't Forget When the Summer Rolls By" (Pollack).

#### WOMEN'S HOUR.

- Speakers: Mrs. Clarence Weber:  
"Au Fait."  
Dr. Vera Scantlebury.
- 4.0 p.m.—Mrs. Clarence Weber, The Physical Culture Expert, will speak on:  
"Physical Culture in the Home"



- 4.20 p.m.—"Au Fait's" Fashions and Foibles talk this week will deal with: "Shopping for Young Australia."
- 4.40 p.m.—Under the auspices of the Public Health Department, Dr. Vera Scantlebury, Director of Infants' Welfare, will speak on: "The Importance of Pre-school Period in Childhood."

## PANATROPE SESSION.

- Transmitted from Panatrobe House, 252 Collins Street (by exclusive permission of Wills and Paton, Ltd), on the Brunswick Panatrobe.
- 5.0 p.m.—Trevor May's Australians: Fox Trot, "Down in Old Havava Town" (Friend).  
Fox Trot, "Indian Cradle Song" (Wayne).  
Fox Trot, "If I Can't Have You" (Donaldson).  
Fox Trot, "Guatemala Melody" (Wenrich).
- 5.10 p.m.—Tom Semple, Tenor. Selected.
- 5.17 p.m.—Trevor May's Australians: The Latest Hits.
- 5.40 p.m.—Tom Semple, Tenor: Selected.
- 5.47 p.m.—Trevor May's Australians: More Dance Music.

## EARLY EVENING SESSION.

- 6 p.m.—The Gypsy Players: Suite, "Summer Days" (Coates).  
"Waltz" (Teresa Carreno).  
"Habenera" (Bizet).
- 6.18 p.m.—Dorothy Eyton-Jones, contralto: "The Soldier's Wife" (Rachmaninof).  
"A Birthday" (Cowen).
- 6.25 p.m.—Trio: "Spring Song" (Mendelssohn).  
"A Perfect Day" (Jacobs Bond).
- 6.33 p.m.—The Gypsy Players: Selection, "Katinka" (Friml).
- 6.43 p.m.—Dorothy Eyton-Jones, contralto: "A Lullaby" (Burchett).  
"Big Lady Moon" (Coleridge-Taylor).
- 6.51 p.m.—Quartette: "Quartet" (Mozart).
- 6.59 p.m.—The Gypsy Players: Suite, "The Shoe Ballet" (John Ansell).
- 7.12 p.m.—Robert Allen, alto: "A Red Rosebud" (Murray-Gibbs).  
"Throb of the Passionate Day" (Lohn).
- 7.20 p.m.—Bessie Gaunson and Bertha Jorgensen: Duet for two violins, "Dancla."
- 7.26 p.m.—Trio: Sextet from Lucia di Lammermoor" (Donizetti).
- 7.33 p.m.—Dorothy Roxburgh, violin: "Allegro."
- 7.38 p.m.—Robert Allen, alto: "Garden of Happiness" (Wood).  
"A Song of Hope" (Wood).
- 7.45 p.m.—The Gypsy Players: Suite, "Lavender and Lace" (Fred Hall).  
"Omar Tone Poems" (Fred Hall).

## EVENING SESSION.

- 8.0 p.m.—MacNamara's Stock Report.
- 8.5 p.m.—"Herald" news service. Weather synopsis. Shipping movements.
- 8.12 p.m.—Stock Exchange information.
- 8.17 p.m.—Fish market reports by J. R. Borrett, Ltd. Rabbit prices.
- 8.19 p.m.—River reports.
- 8.21 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.

## EVENING MUSICAL SESSION.

- 8.31 p.m.—Melbourne Concert Orchestra: Selection, "From the Highlands" (Otto Langey).
- 8.48 p.m.—Julia Russell, soprano: "Softly awakes my heart" (G. Saint-Saens).  
"Star Vivino" (Salvator Rosa).
- 8.56 p.m.—The Radio Ramblers.
- 9.12 p.m.—Julia Russell, soprano: "Habenera" (Bizet).  
"Because" (Guy d'Hardelot).
- 9.20 p.m.—Melbourne Concert Orchestra: "Ballet Russe" (Luigini).  
"Serenata Lamentosa" (Humphries).  
"Danse Lente" (Cesar Frank).
- 9.36 p.m.—Announcements.
- 9.46 p.m.—The Radio Ramblers.
- 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.—Howard Andrews, baritone: "Love of freedom" (Schubert).  
"On the road to Mandalay" (Oley Speaks).
- 10.11 p.m.—Melbourne Concert Orchestra: Ballet music from the opera "The Demon" (Rubenstein).  
Selection, "Lollipop" (Youmans).
- 10.31 p.m.—Howard Andrews, baritone: "Toreador Song" (Bizet).  
"The Horn" (Flegier).
- 10.39 p.m.—The Radio Ramblers.
- 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 Song of the Dial," by Peter Airey.
- 11 p.m.—G.P.O. clock says Eleven.  
God Save the King.

## 4QG, BRISBANE.

## Queensland Radio Service

Wave Length, 385 Metres.

FRIDAY, 22nd JUNE, 1928.

## MORNING SESSION.

10.30 a.m. to 11.30 a.m.

## MIDDAY SESSION.

- 1 p.m.—Market reports; weather information, supplied by the Commonwealth Weather Bureau; news services, supplied by "The Daily Mail" and "The Daily Standard."
- 1.30 p.m.—Lunch-hour music.
- 1.57 p.m.—Standard time signals.
- 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 "The Sandman."
- 7 p.m.—Special news service.
- 7.3 p.m.—Market reports.
- 7.25 p.m.—Fenwick's stock report.
- 7.40 p.m.—Announcements.

- 7.43 p.m.—Standard time signals.
- 7.45 p.m.—To-morrow's Racing Reviewed.
- 7.55 p.m.—To-morrow's Rugby League Matches Reviewed.

## NIGHT SESSION.

- To-night's programme will be relayed from the Acacia Garden, Queen Street, Brisbane.
- 8 p.m.—Topical Chorus.  
Overture, "The Pirate" (Bellini).  
The Acacia Orchestra.  
Soprano solo, "Prince Charming" (Lehmann).  
Miss Jill Manners.  
Male quartette, "Pale in the Amber West" (Parks).  
The Anglo Male Quartette.  
Cornet solo, Selected.  
Mr. Peter Valley.  
Hawaiian Instrumentalists in selected numbers.  
The Aloha Novelty Trio.  
Baritone solo, "Mandalay" (words by Kipling).  
Mr. C. B. Astley.  
Valse, "Passionee" (Montagna).  
The Acacia Orchestra.  
Tenor solo, "Nirvana" (Adams).  
Mr. C. R. Kolb.  
Male quartette, "Jim" (Parks).  
The Anglo Male Quartette.  
Saxophone solo, "Saxophobia" (Wiedhofs).  
Mr. C. Hansen.
- 9 p.m.—Metropolitan weather forecast.
- 9.1 p.m.—Soprano solo, "Vilia" (Lehar).  
Miss Jill Manners.  
Hawaiian Instrumentalists in selected numbers.  
The Aloha Novelty Trio.  
Bass solo, "Mate o' Mine" (Weatherley).  
Mr. R. Pike.  
Cornet solo, Selected.  
Mr. Peter Valley.  
Baritone solo, "Mother o' Mine" (Tours).  
Mr. C. B. Astley.  
Vocal duet, "Flow Gently Deva" (Parry).  
Messrs. C. R. Kolb and R. Pike.  
Novelty two-step, "Near Beer" (Castillo).  
The Acacia Orchestra.  
Male quartette, "O Who Will O'er the Downs" (Pearsall).  
The Anglo Male Quartette.  
Entracte, "Little Fawn" (Rosenbaum).  
The Acacia Orchestra.  
Hawaiian Instrumentalists.  
The Aloha Novelty Trio.  
Baritone solo, "Sweet Letter for Me" (Squire).  
Mr. A. F. Stoddart.  
Violin and Clarinet duet, "Mauresque Caprice" (Bocakari).  
Mrs. M. C. Williams and Mr. C. Hansen.  
March, "On the Air" (Clement).  
The Acacia Orchestra.
- 10 p.m.—Week-end Road Information for Motorists, officially supplied by the Royal Automobile Club of Queensland.  
Weather news. Close down.

## 5CL, ADELAIDE.

## Central Broadcasters, Ltd.

Wave Length, 395 Metres.

FRIDAY, 22nd JUNE, 1928.

## MORNING SESSION.

- 11 a.m.—G.P.O. Chimes.
- 11.1 a.m.—"Advertiser" news service.
- 11.15 a.m.—International News.
- 11.20 a.m.—Musical numbers on "Studio Recreator."
- 11.40 a.m.—Kitchen Craft, and Menu talk by "Economist."
- 12 noon.—G.P.O. Chimes.
- 12.1 p.m.—Vocal and instrumental numbers on "Studio Recreator."



- 12.20 p.m.—News from "The Advertiser."  
12.40 p.m.—Musical numbers on "Studio Recreator."  
12.50 p.m.—S. C. Ward and Co.'s Stock Exchange Intelligence.  
12.57 p.m.—Meteorological information.  
1 p.m.—Relay from the Adelaide Town Hall, Community Singing.  
2 p.m.—G.P.O. Chimes and close down.

AFTERNOON SESSION.

- 3 p.m.—G.P.O. Chimes.  
3.1 p.m.—Vocal and Instrumental Concert from Studio.  
3.45 p.m.—Talk, Items of Interest by "Intelligence."  
4 p.m.—G.P.O. Chimes.  
4.1 p.m.—Orchestral and vocal selections on "Studio Recreator."  
4.57 p.m.—S. C. Ward and Co.'s Stock Exchange Intelligence.  
5 p.m.—G.P.O. Chimes and close down.

EVENING SESSION.

- 6 p.m.—G.P.O. Chimes.  
6.1 p.m.—Childrens' Entertainment:—Greetings, Correspondence and Childrens' Concert.  
6.30 p.m.—Dinner Music on "Studio Recreator."  
6.55 p.m.—General Market reports, on Poultry, Dairy Produce, Fruit, and Vegetables, fish, Live Stock, etc.  
7 p.m.—G.P.O. Chimes.  
7.1 p.m.—S. C. Ward and Co.'s Stock Exchange Intelligence.  
7.8 p.m.—5CL's Sporting Service.  
7.20 p.m.—Football Talk by "Highmark."  
7.30 p.m.—Relay from Malcolm Reid and Co.'s Furniture Showroom, Orchestral Selections interspersed with vocal numbers:—  
9 p.m.—G.P.O. Chimes.  
9.1 p.m.—Meteorological information.  
9.2 p.m.—International News.  
9.7 p.m.—Dalgety's Wheat report.  
9.8 p.m.—Chas. Baggott, tenor.  
9.18 p.m.—Seth Smith, banjo.  
9.28 p.m.—Beatrice Kingston, soprano.  
9.33 p.m.—Studio Orchestra.  
Descriptive Suite: "Hyde Park" (Jalowicz).  
9.43 p.m.—Beatrice Kingston, soprano.  
9.49 p.m.—Seth Smith, banjo:  
"The Douglas March" (Rossiter).  
9.52 p.m.—Studio Orchestra:  
Selection, "Sounds from the Sunny South" (Isermann).  
10 p.m.—G.P.O. Chimes.  
10.1 p.m.—"Advertiser" General News Service.  
10.10 p.m.—5CL's Sporting Service.  
10.18 p.m.—Studio Orchestra:  
10.40 p.m.—Relay from Glenelg, The Maison de Dance Band.  
10.59 p.m.—Saturday's programme and Meteorological information.  
11 p.m.—G.P.O. Chimes and National Anthem.

6WF, PERTH

Westralian Farmer's.

Wave Length, 1250 Metres.

FRIDAY, 22nd JUNE, 1928.

MIDDAY SESSION.

- 12.30 p.m.—Tune in.  
12.35 p.m.—Markets, News and cables.  
1 p.m.—Time signals.  
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 from the studio, including vocal and instrumental artists.  
9 p.m.—From The Theatre:  
Second half of the Vaudeville programme given by Pat Hanna's 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.  
10.30 p.m.—Close down.

104.5 METRE TRANSMISSION.

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

7ZL, HOBART

Tasmanian Broadcasters, Ltd.

Wave Length, 516 Metres.

FRIDAY, 22nd JUNE, 1928.

MORNING SESSION.

- 11 a.m.—G.P.O. Clock chimes the hour.  
11.1 a.m.—Special Midlands Weather forecast.  
11.5 a.m.—British Official Wireless news.  
11.10 a.m.—"Mercury" morning news service.  
11.30 a.m.—Shipping information.  
Ships within wireless range.  
Mail notices.  
Commercial news.  
Foreign Exchange markets.  
Produce sales.  
Housewives' guide.  
Railway sales.  
11.45 a.m.—Selections from the Studio.  
11.50 a.m.—What's Doing. Amusement guide.  
11.55 a.m.—Tasmanian Weather Stations 9 a.m. reports.  
12 noon.—G.P.O. Clock chimes the hour.  
Close down.

MATINEE SESSION.

- 3 p.m.—G.P.O. Clock chimes the hour.  
3.1 p.m.—Musical selection.  
3.5 p.m.—Weather forecasts.  
Items of Interest, Announcements.  
3.15 p.m.—Selections by 7ZL Studio Trio:  
During intervals Mr. Jack Broadbent the popular baritone, will be heard in the following numbers:—  
"King Charles" (White).  
"The King's Minstrel" (Pinsuti).  
"Wait" (D'Hardlot).  
"You are all that is lovely" (Finden).  
Selection, "Student Prince" (Romberg).  
Danse, "Les Sabets" (Elliott).  
Clarinet Solo, Mr. Arthur Young.

- Valse "Claudine" (Znlucton).  
Fox trot, "Can't you hear me say I love you?" (Donaldson).  
4.15 p.m.—Educational Talk.  
4.30 p.m.—Close down.

EARLY EVENING SESSION.

- 6.15 p.m.—Uncle David entertains the wee folk.  
6.30 p.m.—Uncle Hubert talks to the older boys and girls.

EVENING SESSION.

- 7.15 p.m.—Talk, Mr. J. M. Counsell, L.L.B. Subject, "Art."  
7.30 p.m.—Fruit, Poultry, and Produce reports through the courtesy of Roberts and Co. Ltd.  
7.35 p.m.—Chat on to-morrow's Football Prospects by Mr. Sid Jones.  
7.50 p.m.—"Mercury" special Tasmanian news service.  
Railway auction produce sales.  
Weather forecasts.  
Hobart Stock Exchange quotations.  
8 p.m.—G.P.O. Clock chimes the hour.  
8.1 p.m.—Second series of 7ZL's Plantation Nights Famous old plantation songs and medolies.  
"Think no more of the cotton fields till to-morrow."  
9.50 p.m.—"Mercury" special Interstate news service.  
Ships within wireless range.  
Tasmanian District Weather reports.  
9 p.m. Weather forecasts.  
Weather reports from Australian Capital cities.  
Station announcements.  
Saturday's programme.  
10 p.m.—G.P.O. Clock chimes the hour.  
10.1 p.m.—Our Tasmanian Good-night thought:  
We are the roadside flowers straying from garden grounds.  
Lovers of idle hours,  
Breakers of ordered bounds. (Carmen).  
10.2 p.m.—The King.  
10.3 p.m.—Close down.

Saturday, June 23

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 service.  
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 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").  
11.30 a.m.—Close down.



## MIDDAY AND AFTERNOON SESSIONS.

- 12 noon.—"Big Ben" and announcements.  
 12.2 p.m.—Stock Exchange information.  
 12.4 p.m.—Studio Music: Popular dance numbers.  
 12.10 p.m.—"Sydney Morning Herald" news service.  
 12.15 p.m.—Rugby wireless news.  
 12.20 p.m.—Studio Music: Dance records.  
 NOTE: A complete description of the events of the Moorefield Races will be given by the 2FC Racing Commissioner.  
 1 p.m.—"Big Ben." Weather intelligence.  
 1.3 p.m.—"Evening News" midday news service.  
 1.15 p.m.—Studio music and race descriptions.  
 2 p.m.—"Big Ben."  
 Note: During intervals of racing descriptions the following artists will be heard from the Studio:  
 Harry Myers, mouth-organ player:  
 (a) Selection of Marches.  
 (b) "Tall we meet again" (Eagan).  
 The "Smart Set" Instrumental Trio:  
 (a) "My Blue Heaven" (Donaldson).  
 (b) "Put your arms where they belong" (Ackman).  
 (c) "Spanish Moon" (Teresa).  
 (d) "Together we two" (Berlin).  
 (e) "Here comes springtime" (O'Hagan).  
 (f) "Love is just a little bit of heaven" (Baer).  
 (g) "Doll Dance" (Brown).  
 (h) "Nuthin'" (Berlin).  
 Alice Hunt, soprano:  
 (a) "Sweet Lady Moll" (Montague Phillips).  
 (b) "What's in the air to-day?" (Robert Eden).  
 Carlos Fakola, novelty pianist.  
 Note: Results of the Rosebery ponies will be transmitted as received.  
 4.45 p.m.—Complete sporting resume.  
 5 p.m.—"Big Ben." Close down.

## EARLY EVENING SESSION.

- 5.40 p.m.—The chimes for 2FC.  
 5.45 p.m.—The "Hello Man" talks to the children.  
 6.45 p.m.—Weather intelligence, shipping, Stock Exchange, and Rugby wireless news.  
 6.50 p.m.—From the Hotel Australia: The Hotel Australia Orchestra.  
 7.15 p.m.—From the Studio: Dinner music.  
 7.25 p.m.—Late sporting news.  
 7.35 p.m.—"Evening News" late news service.

## A POPULAR NIGHT.

- 7.45 p.m.—Talk by Mr. G. J. Lockley: "I Remember."  
 8 p.m.—"Big Ben." Alexander Sverjensky, pianist:  
 "Andante and Polonaise in E Flat Major" (Chopin).  
 8.12 p.m.—Gwladys Evans, soprano:  
 (a) "Preludio" from "La Cena."  
 (b) "Do not go my love" (Hageman).  
 8.20 p.m.—Blunder Budget, by Captain Fred Aarons.  
 8.30 p.m.—Alexander Sverjensky, pianist:  
 (a) "Pastorale" (Scarlatti).  
 (b) "Improvisation" (Godard).  
 9.37 p.m.—Gwladys Evans, soprano:  
 (a) "The First Kiss" (Sibelius).  
 (b) "The Tryst" (Sibelius).  
 8.45 p.m.—The Warwick Costume Company. "Ether" Revue. A light-hearted miscellany, devised and directed by Edgar Warwick, entitled, "The Ether Revue," perpetrated by the Misses Eileen Dawn and Ann Palmerston, and Messrs. Wilfred Thomas, Carlton Fay and Edgar Warwick.  
 10 p.m.—"Big Ben." Noel Allen, baritone, by permission of J. C. Williamson, Ltd.  
 10.8 p.m.—Cyril Monk, violinist:  
 (a) "Irish Air" (Alfred Hill).  
 (b) "Rigaudons" (Desmarests).  
 (c) "Dusk" (Alfred Hill).

- 10.20 p.m.—Noel Allen, baritone.  
 10.28 p.m.—Late weather forecast. Cyril Monk, violinist:  
 (a) "Liebestraum" (Liszt).  
 (b) "From a Dance Hall" (Novak).  
 (c) "Impromptu" (Schubert).  
 10.40 p.m.—Late weather.  
 10.41 p.m.—Harrison White, banjo solos.  
 10.48 p.m.—The Ambassadors' Dance Orchestra. Conductor, Mr. Manuel Hyman.  
 10.54 p.m.—Harrison White, banjo solos.  
 11 p.m.—"Big Ben." Late news. To-morrow's programme.  
 11.2 p.m.—The Ambassadors' Dance Orchestra.  
 11.45 p.m.—"Big Ben."  
 National Anthem.  
 Close down.

## 2BL, SYDNEY.

SATURDAY, 23rd JUNE, 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.  
 During the afternoon musical programme from the Studio, interspersed with descriptions of the Rugby League football match broadcast from the Sydney Cricket Ground, and race results from the Studio.  
 4.45 p.m.—Racing resume.  
 5 p.m.—G.P.O. clock and chimes.  
 Close down.

## EARLY EVENING SESSION.

- 5.45 p.m.—G.P.O. clock and chimes.  
 Children's session.  
 6.30 p.m.—Dinner music.  
 7 p.m.—G.P.O. clock and chimes.  
 Complete racing and sporting resume.  
 7.30 p.m.—News from the "Sun."

## EVENING SESSION.

- 8 p.m.—G.P.O. clock and chimes.  
 Broadcasters' Topical Chorus.  
 8.3 p.m.—Rose Bay Winter Garden Theatre Symphony Orchestra, under the direction of Mr. Lionel Hart, broadcast from Rose Bay Theatre.  
 8.20 p.m.—Mr. Phil Mountain, comedian.  
 8.27 p.m.—King's Mandolin Orchestra.  
 8.34 p.m.—Miss Camille Alder, soprano.  
 8.41 p.m.—Mr. George Welch, comedian.  
 8.48 p.m.—Mr. Frank Ryan, entertainer.  
 8.55 p.m.—Miss Dulcie Blair, violinist.  
 9.2 p.m.—Rose Bay Winter Garden Theatre Symphony Orchestra.  
 9.12 p.m.—Mr. Phil Mountain, comedian.  
 9.19 p.m.—King's Mandolin Orchestra.  
 9.26 p.m.—Mr. George Welch.  
 9.33 p.m.—Miss Camille Alder.  
 9.40 p.m.—Mr. Frank Ryan.

- 9.47 p.m.—Rose Bay Winter Garden Theatre Symphony Orchestra.  
 9.57 p.m.—Resume of following day's programme.  
 10 p.m.—Miss Dulcie Blair.  
 10.7 p.m.—The Wurlitzer Organ broadcast from the Arcadia Theatre, Chatswood.  
 10.20 p.m.—The Wentworth Cafe Orchestra, under the direction of Mr. Jimmy Elkins, broadcast from the Wentworth. During intervals between dances, "Sun" news and Wentworth social notes will be broadcast.  
 11.45 p.m.—G.P.O. clock and chimes.  
 National Anthem.

## 2GB, SYDNEY

SATURDAY, 23rd JUNE, 1928.

## EVENING SESSION.

- 5.30 p.m.—Children's Session by Uncle George.  
 7 p.m.—Dinner Music.  
 8 p.m.—Opening Chorus.  
 8.2 p.m.—Request Evening.  
 10 p.m.—Close down.

## 2UW, SYDNEY

SATURDAY, 23rd JUNE, 1928.

- 7 p.m.—Items from the studio.  
 7.10 p.m.—Where to go session.  
 7.15 p.m.—Instrumental items.  
 7.45 p.m.—News, mails and shipping, etc.  
 Dance programme by courtesy of Morley Johnson Ltd.  
 9 p.m.—Request numbers.  
 9.30 p.m.—Instrumental and vocal items.  
 10 p.m.—Announcements and close down.

## 3LO, MELBOURNE.

SATURDAY, 23rd JUNE, 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.  
 7.40 a.m.—News.  
 8 a.m.—Melbourne Observatory time signal.  
 8.1 a.m.—Express train information.  
 8.2 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.—ERIC WLECH will talk on to-day's races.  
 11.15 a.m.—THE STATION ORCHESTRA:  
 "Serenade" (Mozzkowski).  
 "Serenade" (Schubert).  
 11.25 a.m.—SENIA CHOSTIAKOFF, tenor:  
 Request items.  
 11.32 a.m.—THE STATION ORCHESTRA:  
 Selection, "The Geisha" (Jones).  
 11.42 a.m.—MADAME LAMBERT, soprano:  
 "Les Lames" (Massenet).  
 Selection, "Veronique" (Messager).  
 11.49 a.m.—THE STATION ORCHESTRA:  
 "Tempe di Gavotte" (Sore).  
 11.53 a.m.—WILL PAGE, xylophone:  
 Selection, "William Tell."



## NEW 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.

## MIDDAY SESSION.

12.20 p.m.—THE STATION ORCHESTRA:  
"Parade of the Tin Soldiers."  
12.25 p.m.—RUPERT HAZELL and ELSIE DAY:  
"Harmonylarity."  
12.33 p.m.—Stock Exchange information.  
12.40 p.m.—THE STATION ORCHESTRA:  
"Valse Orientale—The Temple Dancer" (Leigh).  
12.43 p.m.—ARTHUR ARMSTEAD, baritone.  
"Yeoman's Wedding Song" (Prince Panatowski).  
"The Devout Lover" (Maude V. White).  
12.50 p.m.—THE STATION ORCHESTRA:  
"The Boys of the Old Brigade" (Bevois).  
12.53 p.m.—SENIA CHOISTIAKOFF, tenor:  
"Star Vicino" (Salvator Rosa).  
"Come un bel di maggio"—from the opera—Andrea Chenier.

1 p.m.—Melbourne Observatory time signal.  
1.1 p.m.—THE STATION ORCHESTRA:  
Selection from "Mary" (Hirsch).  
1.8 p.m.—Meteorological information. Weather forecast for Victoria, Tasmania, South Australia and New South Wales. Ocean forecasts. River reports.  
1.15 p.m.—MADAME LAMBERT, soprano:  
Request items.  
1.22 p.m.—THE STATION ORCHESTRA.  
"La Cinquantine" (Gabriel Marie).  
1.27 p.m.—Description of Toolambool Hurdle, 2 miles 65 yards, Caulfield Races, by Eric Welch.  
1.35 p.m.—Description of BASEBALL MATCH, South Melbourne v. Collingwood, at South Melbourne, by Percy Steel.  
1.45 p.m.—ARTHUR ARMSTEAD, baritone:  
"Star of the Desert" (Theo. Bonheur).  
"Oh, Oh, Hear the Wild Winds Blow" (Titto Mattei).  
1.52 p.m.—Description of BASEBALL MATCH, South Melbourne v. Collingwood, at South Melbourne, by Percy Steel.  
1.57 p.m.—Close down.

## AFTERNOON SESSION.

2.13 p.m.—Description of Minook Two-year-old, 7 furlongs, Caulfield Races, by Eric Welch.  
2.20 p.m.—THE GYPSY PLAYERS:  
Overture, "Emperor" (Kreisler).  
2.30 p.m.—Description of BASEBALL MATCH, South Melbourne v. Collingwood, at South Melbourne, by Percy Steel.  
2.40 p.m.—THE GYPSY PLAYERS:  
"A Deep Sea Romance" (Lake).  
2.48 p.m.—Description of Richmond Handicap, 1 mile 3 furlongs, Caulfield Races, by Eric Welch.  
2.55 p.m.—Description of INTERSTATE FOOTBALL MATCH, Victoria v. New South Wales, at M.C.G., by Rod McGregor.  
3.15 p.m.—THE GYPSY PLAYERS:  
"Suite Ancienne" (Hadley).  
3.32 p.m.—Description of Wanda Steeple, 2 miles 3 furlongs, Caulfield Races, by Eric Welch.  
3.30 p.m.—THE GYPSY PLAYERS:  
"In Fairyland."  
"The Fairy Ring" (Hosmer).  
3.35 p.m.—Description of INTERSTATE FOOTBALL MATCH, Victoria v. New South Wales, at M.C.G., by Rod McGregor.  
3.50 p.m.—Quarter time scores—Football.  
3.35 p.m.—THE GYPSY PLAYERS:  
"Babylon" (Elie).

3.58 p.m.—Description of Cambria Welter, 1 mile 1 furlong, Caulfield Races, by Eric Welch.  
4.5 p.m.—THE GYPSY PLAYERS:  
"Offenbach Selection" (Ansell).  
4.20 p.m.—Half-time scores—football.  
4.22 p.m.—Description of INTERSTATE FOOTBALL MATCH, Victoria v. New South Wales, at M.C.G., by Rod McGregor.  
4.34 p.m.—Description of Rosny Plate, 6 furlong, Caulfield Races, by Eric Welch.  
4.40 p.m.—THE GYPSY PLAYERS:  
"Silver Bells" (Iseman).  
"Egyptian Parade" (Iseman).  
4.50 p.m.—Three-quarter time — football scores.  
4.52 p.m.—Description of INTERSTATE FOOTBALL MATCH, Victoria v. New South Wales, at M.C.G., by Rod McGregor.  
5 p.m.—"Herald" news service. Stock Exchange information.  
5.15 p.m.—Close down.  
5.50 p.m.—All sporting results, including final scores, Association and Local. Interstate football matches.

## EVENING SESSION.

6 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":  
"The Princess who lost her Dimple—another story of Pickles and Prowl."

## NEWS AND MARKET REPORTS.

7 p.m.—Sporting results and final interstate football scores.  
7.5 p.m.—"Herald" news service. Weather synopsis. Shipping movements.  
7.12 p.m.—Stock Exchange information.  
7.17 p.m.—River reports.  
7.20 p.m.—Market reports by the Victorian Producers' Co-operative Co., Ltd. Poultry, grain, hay, straw, jute, dairy produce, potatoes and onions. Market reports of fruit by the Victorian Fruitgrowers' Association, retail prices. Wholesale prices of fruit by the Wholesale Fruit Merchants' Association. Citrus fruits.

## NIGHT SESSION.

7.30 p.m.—FREDERICK CHAPMAN, A.L.S., F.G.S., Palaeontologist of the National Museum, will speak on:  
"Fossil Horses."  
7.45 p.m.—DR. J. A. LEACH, will speak on:  
"Owlet-nightjar and Dollar-bird."

## OUT OF THE PAST.

8 p.m.—To-day is the anniversary of the Battles of Dettigen, 1743, and of Quatre Bras, 1815. At the battle of Quatre Bras the British and allied forces under the Duke of Brunswick, Prince of Orange and Sir Thomas Picton fought against Ney with heavy losses on either side, but the result was indecisive. And in 1896 the Castle liner, Drummond Castle, foundered off Island of Molone, only three people saved. Birthday greeting and programme announcements.

## A MAKER OF HISTORY.

8.1 p.m.—On the 16th June, 1869, died CHARLES STURT, the Australian explorer, who during 1828-45 headed three important expeditions, from the last of which he returned blinded by hardships and exposure. He received in 1851 a pension from the first South Australian Parliament, and died at Cheltenham, England.

8.2 p.m.—W. J. G. TURNER, secretary of the Austin Hospital for Chronic Diseases, will speak on the work of the Hospital.  
8.15 p.m.—SOUTHERN CHORAL SOCIETY:  
"Rose of my Heart" (Loehr).  
"O, Peaceful Night" (German).  
Pianist, Olive McKillop.  
8.22 p.m.—THE GYPSY PLAYERS:  
Valse-Suite, "Southern Nights" (Guion).  
8.29 p.m.—HELGA BRENNECKE, 'cello:  
"Chant Sans Paroles" (Tchaikowsky).  
8.34 p.m.—SOUTHERN CHORAL SOCIETY:  
"The Far Away Bells" (Gordon).  
"London Town" (German).  
Pianist, Olive McKillop.  
8.41 p.m.—THE GYPSY PLAYERS:  
"Quartet" (Haydn).  
8.50 p.m.—THE EVENT OF THE EVENING—THE STRUGGLE AT THE STADIUM—Description by Eric Welch. Prior to this description Olympus will give a short chat on the Tour de France.

## FROM THE STUDIO.

10.15 p.m.—RUPERT HAZELL AND ELSIE DAY:  
"Harmonylarity."  
10.27 p.m.—THE STATION ORCHESTRA:  
Selection, "Mary" (Hirsch).  
10.37 p.m.—MADAME LAMBERT, soprano:  
"Serenade Francaise" (Leoncavallo).  
"Until."

## LATE SPORTING RESULTS.

10.44 p.m.—Sporting results.

## SLO's DANCE PROGRAMME.

10.56 p.m.—THE VAGABONDS.  
11.40 p.m.—GOD SAVE THE KING.

## 3AR, MELBOURNE

SATURDAY, 23rd JUNE, 1928.

EARLY MORNING NEWS SESSION.  
9 a.m. to 10 a.m.

## AFTERNOON MUSICAL SESSION.

3 p.m.—Melbourne Concert Orchestra:  
"From Stage to Stage" (Fetras).  
3.14 p.m.—Alan Eddy, bass-baritone:  
"Sea Songs" (Pal Corder).  
3.22 p.m.—The Radio Ramblers.  
3.38 p.m.—Alan Eddy, bass-baritone:  
"Homing" (Del Riego).  
"Morning" (Oley Speaks).  
3.45 p.m.—Melbourne Concert Orchestra:  
Selection, "Queen High" (Hanley).  
"Gavotte" (Sgambati).  
4 p.m.—G.P.O. Clock says "Four."  
4.1 p.m.—Second weather forecast.  
4.3 p.m.—Jean Lewis, contralto:  
"Lullaby" (Mozart).  
"Little Brown Cottage" (Dickson).  
4.11 p.m.—The Radio Ramblers.  
4.27 p.m.—Announcements.  
4.37 p.m.—Melbourne Concert Orchestra:  
"Melodious Memories" (Finck).  
4.55 p.m.—Jean Lewis, contralto:  
"The Red Sarafar" (Russian Folk Song).  
"The Asra" (Rubenstein).  
5.3 p.m.—The Radio Ramblers.  
5.19 p.m.—Newstead Rush, bass:  
"Mavourneen" (Florence Aylward).  
"Even Bravest Heart" (Gounod).  
5.26 p.m.—Melbourne Concert Orchestra:  
Suite, "Viva la Danse" (Finck).  
"Petite Suite d'Orchestre" (Bizet).  
5.43 p.m.—Newstead Rush, bass:  
"When Thy Blue Eyes" (Lassen).  
"Dear Love! Thou'rt like a Blossom" (Liszt).  
5.50 p.m.—Melbourne Concert Orchestra:  
"Cavatine" (Raff).  
"The Savoy American Medley" (Somers).



## EARLY EVENING SESSION.

- 6 p.m.—The Gypsy Players:  
"Nell Gwynn Dances" (German).  
6.15 p.m.—Jessie Shmith, contralto:  
"Elegie" (Massenet).  
"Don't you Mind the Sorrows" (Cowles).  
6.22 p.m.—Bertha Jorgensen, violin:  
"Romance" (Svendsen).  
6.30 p.m.—Trio:  
"Prelude" (Whelpley).  
6.38 p.m.—Jessie Shmith, contralto:  
"I Love You More" (Dorothy Lee).  
"The Bitterness of Love" (Dunn).  
6.46 p.m.—The Gypsy Players:  
Selection, "High Jinks" (Friml).  
6.55 p.m.—Quartet:  
"Christmas Carol" (Ponchon).  
7.4 p.m.—Herbert Sanderson, baritone:  
"Hope the Horn Blower" (Ireland).  
"Sea Fever" (Ireland).  
7.12 p.m.—The Gypsy Players:  
"Andante" (Beethoven).  
"Dance Oriental" (Lubomensky).  
7.27 p.m.—Helga Brennecke, 'cello:  
"Ave Maria" (Schubert).  
"Abenleid" (Schumann).  
7.35 p.m.—Trio:  
"The Dawn of Love" (Bendix).  
7.41 p.m.—Herbert Sanderson, baritone:  
"The Song of the Wanderer" (Smith).  
"The Blind Ploughman" (Clarke).  
7.48 p.m.—The Gypsy Players:  
"Algerian Song" (Ketelbey).  
"Cockney Suite" (Ketelbey).

## EVENING NEWS SESSION.

- 8 p.m.—Sporting Results.  
8.5 p.m.—"Herald" News Service.  
Weather synopsis.  
Shipping Movements.  
8.12 p.m.—Stock Exchange information.  
8.17 p.m.—River Reports.  
8.20 p.m.—Market reports by the Victorian Producers' Co-operative Co., Ltd.: Poultry, grain, hay, straw, jute, dairy produce, potatoes and onions. Market reports of fruit by the Victorian Fruitgrowers' Association: Retail prices. Wholesale prices of fruit by the Wholesale Fruit Merchants' Association. Citrus fruits.

## EVENING SESSION.

8.30 to 11.0 p.m.—Use Friday's Programme, inserting at 9.36 p.m., W. R. Warner, a talk on "Gardening."

## 4QG, BRISBANE.

SATURDAY, 23rd JUNE, 1928.

NO MORNING SESSION.

NO MIDDAY TRANSMISSION.

## AFTERNOON SESSION.

The B.A.T.C. Race Meeting will be relayed from Albion Park Course. Transmission will commence with the start of the first race.

The time at which transmission will commence will depend upon the starting time of the first race, and will be announced from the station on the previous Friday night.

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.  
7.45 p.m.—Lecture, "Central Africa," by Miss D. Hyde (Organising Secretary, Sudan United Mission).

## NIGHT SESSION.

- 8 p.m.—Orchestral music. Tivoli Operatic Orchestra, under the baton of Mr. C. Groves.  
8.30 p.m.—From the Studio:  
Soprano solos:  
(a) "When Day is Done" (de Sylva).  
(b) "Love is Just a Little Bit of Heaven" (Baer).  
Miss Thelma Champion.  
8.37 p.m.—"The Conquest of the Air—Story No. 2—"Col. Oswald Watt, the Father of the A.F.C.," by "Propellor."  
8.50 p.m.—Mr. E. Kenyon, the Entertainer.  
9 p.m.—Dance Music by Douglas Droyn and his Lennon's Hotel Orchestra.  
10 p.m.—From the Studio:  
"The Daily Mail" news. Weather news.  
Close down.

## 5CL, ADELAIDE.

SATURDAY, 23rd JUNE, 1928.

## MORNING SESSION.

11 a.m. to 12 noon.

## AFTERNOON SESSION.

- 1 p.m. (Approx).—Relay from the Morphettville Racecourse, Tattersalls meeting. A Running Description by Mr. Arnold Treloar interspersed with interstate (Moonee Valley), and South Australian Sporting results, with music from studio.  
5.20 p.m. (Approx).—Close down.

## EVENING SESSION.

- 6 p.m.—G.P.O. Chimes.  
6.1 p.m.—Late Sporting results.  
6.5 p.m.—Childrens' Entertainment. Greetings, Letters and Stories interspersed with Bedtime Music.  
6.30 p.m.—Dinner Music on "Studio Recorder."  
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.:  
"Mel B. Spurr, entertainer."  
7.23 p.m.—"Items of Interest" by C. G. Riley.  
7.38 p.m.—To-day's League Football review.  
7.45 p.m.—Summary of local and interstate sporting.  
8 p.m.—G.P.O. Chimes.  
8.1 p.m.—Eric Wickens, basso:  
"The Ringers" (Squire).  
8.5 p.m.—Magill Vice-Regal Band:  
8.19 p.m.—Windara Male Quartette.  
8.25 p.m.—Don Fraser, comedian.  
8.31 p.m.—Magill Vice-Regal Band:  
"A Musical Smith" (Gulford).  
8.41 p.m.—Eric Wickens, basso:  
"The Ragged Vagabond" (Randolf).  
8.45 p.m.—Magill Vice-Regal Band:  
"The Jolly Coppersmith."  
8.52 p.m.—Windara Male Quartette.  
8.58 p.m.—Don Fraser, comedian:  
"Cupid" (Harrison).  
9.2 p.m.—Dance Selections by Maison De Dance Band.  
9.12 p.m.—Ken Hughes, tenor:  
"Parted" (Tosti).  
9.15 p.m.—Magill Vice-Regal Band:  
Selection, "H.M.S. Pinafore" (Sullivan).  
9.24 p.m.—Don Fraser, comedian:  
"Odds and Ends."  
9.28 p.m.—Ken Hughes, tenor:  
9.33 p.m.—Magill Vice-Regal Band:  
"Down South" (Middleton).  
9.41 p.m.—Eric Wickens, basso:  
"Forty Fathoms Deep."  
9.45 p.m.—Dance Selection by Maison De Dance Band.  
10 p.m.—G.P.O. Chimes.  
10.1 p.m.—Summary of Interstate and South Australian Sporting.  
10.10 p.m.—Magill Vice-Regal Band.  
10.22 p.m.—Relay from Glenelg—The Maison de Danse Band.  
10.57 p.m.—Sunday's Programme.  
11 p.m.—G.P.O. Chimes and National Anthem.

## 6WF, PERTH.

SATURDAY, 23rd JUNE, 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.  
Football results and Racing results.  
(Quarter time scores).  
5.30 p.m.—Close down.

## EVENING SESSION.

- 6.45 p.m.—Tune in.  
The evening transmission is broadcast on 104.5 metres as well as the usual wavelength.  
6.50 p.m.—Stories for the Kiddies by Uncles Henry, 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.—Music and Song:  
Musical programme from the studio, including vocal and instrumental artists.  
Dance music relayed from the Unity Theatre, Beaufort Street, Perth.  
10 p.m.—Late news items by courtesy of "The Daily News" Newspaper Co.  
Ships within range announcement.  
Weather report and forecast.  
10.30 p.m.—Close down.

## 104.5 METRE TRANSMISSION.

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

## 7ZL, HOBART

SATURDAY, 23rd JUNE, 1928.

## MORNING SESSION.

- 11 a.m.—G.P.O. Clock chimes the hour.  
11.1 a.m.—Special Midlands Weather forecast.  
11.5 a.m.—British Official Wireless news.  
11.10 a.m.—"Mercury" morning news service.  
11.30 a.m.—Shipping information.  
Ships within wireless range.  
Mail notices.  
Commercial news.  
Foreign Exchange markets.  
Housewives' guide.  
11.45 a.m.—Hobart Stock Exchange quotations.  
11.50 a.m.—Sporting anticipations.  
12 noon.—G.P.O. Clock chimes the hour.  
Close down.

## MATINEE SESSION.

- 2.30 p.m.—Broadcast from North Hobart Oval, description of the Football Match North Hobart v. Cananore, by Mr. Sid Jones.  
During this session racing results will be broadcast. Close down at conclusion of Football Match.

## EARLY EVENING SESSION.

- Children's Corner.  
6.15 p.m.—Uncle Davids' half hour for the little ones.  
6.30 p.m.—Uncle Hubert's corner for the older boys and girls.



EVENING SESSION.

- 7.15 p.m.—Talk by Mr. E. Mitchell:  
"Come to Tasmania" Movement. Subject,  
"Scenic Beauties of the West Coast."  
7.30 p.m.—Musical selections from the studio.  
7.50 p.m.—"Mercury" special Tasmanian news  
service.  
Sporting results.  
Hobart Stock Exchange Quotations.  
8 p.m.—G.P.O. Clock chimes the hour.  
8.1 p.m.—Musical selections from the studio:  
During the intervals of this session Mr.  
Harry Williams (entertainer) will be heard  
in Humorous Songs, Monologues, and stories.  
8.15 p.m.—7ZL Dancing Session.  
Broadcast from City Hall, Hobart, Dance  
numbers by Pavilion de Danse Band.  
10.20 p.m.—British Official Wireless news.  
"Mercury" special Interstate news service.  
Ships within wireless range.  
Weather information.  
Station announcements.  
Sunday's programmes.  
10.30 p.m.—Our Tasmanian Good-night  
Thought:  
I smile—why not Show me the spot In life  
so dark and dreary that does not hide a  
gleaming side.  
Where things are bright and cheery. (Anon).  
10.31 p.m.—The King.  
10.32 p.m.—Close down.

Sunday, June 24

2FC, SYDNEY

MORNING SESSION.

- 10.55 a.m.—Programme announcements.  
11.0 a.m.—"Big Ben." St. Mark's, Darling  
Point.

THE MORNING SERVICE.

- Preacher: Canon E. Howard Lea.  
12.5 p.m.—From the Studio:  
Musical Items and News Session.  
12.30 p.m.—Close Down.

AFTERNOON SESSION.

- 3.0 p.m.—"Big Ben" and programme announce-  
ments.  
3.2 p.m.—From the Congregational Church,  
Petersham.

AFTERNOON SERVICE.

- Organ Prelude.  
Invocation and Lord's Prayer.  
Hymn, "All People That on Earth do Dwell."  
Lesson.  
Prayer.  
Anthem.  
Hymn, "Whom Oceans Part O Lord Unite."  
Sermon by the Rev. Thomas Yates of Eng-  
land:  
Hymn, "O Love That Will Not Let Me Go."  
4.0 p.m.—From the Band Rotunda, Manly  
Beach: A programme by the Manly Muni-  
cipal Band. Conductor, James Pheloung.  
5.0 p.m.—"Big Ben." Close Down.

EVENING SESSION.

- 6.0 p.m.—"Big Ben." and Announcements.  
6.5 p.m.—Captain Fred Aarons: A talk on  
the Humours of History.  
6.20 p.m.—From the Congregational Church,  
Petersham: An Organ and Orchestral  
Recital, arranged by Ambrose Gibbs.  
Organ:  
(a) "Offertoire" (Chauvet).  
(b) "Andante in G" (Batiste).  
(c) "Coronation March" (Meyerbeer).  
(d) "Offertoire in D Minor" (Batiste).  
Items by the Orchestra, under the baton  
of Roy Scott.  
Favourite hymn tunes and selections from  
Oratorios.  
Soloist: Miss Renee Bassiere.

- 7.15 p.m.—The Evening Service, from the  
Congregational Church, Petersham.  
Preacher: Rev. A. P. Doran:  
Sermon, "Courage, Brother, do not Stumble"  
8.30 p.m.—From the Olympic Theatre, Manly:  
The Manly Municipal Band, conducted by  
James Pheloung.

NIGHT SESSION.

- 9.30 p.m.—From the Studio:  
Dulcie Cherry, Soprano (by permission of  
Allan Wilkie):  
(a) "I Attempt from Love's Sickness to  
Fly" (Purcell).  
(b) "Ave Maria" (Schubert).  
9.38 p.m.—Paul Vinogradoff, Pianoforte Solo:  
"Second Hungarian Rhapsody" (Liszt).  
9.50 p.m.—Dulcie Cherry, Soprano (by permis-  
sion of Allan Wilkie):  
(a) "Who is Sylvia" (Schubert).  
(b) "The Dove" (Landon Ronald).  
9.58 p.m.—Rachmaninoff's Concerto, for two  
pianos:  
1st Movement from 1st Concerto.  
First piano, Ruby Goldsbrough.  
Second piano, Paul Vinogradoff.  
10.10 p.m.—National Anthem. Close Down.

2BL, SYDNEY.

SUNDAY, 24th JUNE, 1928.

MORNING SESSION.

- 10.45 a.m.—"Sun" News Service.  
11 a.m.—Service broadcast from Chalmers  
Presbyterian Church. Minister: Rev. D. F.  
Brandt.

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.—Organ Recital broadcast from Chal-  
mers Presbyterian Church.  
4 p.m.—Pleasant Sunday Afternoon broadcast  
from Leichhardt Methodist Mission.  
5 p.m.—G.P.O. Clock and Chimes.  
Close down.

EVENING SESSION.

- 5.45 p.m.—G.P.O. Clock and Chimes.  
Children's Session.  
7 p.m.—Service broadcast from St. Jude's  
Church of England, Randwick. Rector:  
Canon Cakebread.  
8.30 p.m.—Band Recital by the North Sydney  
Tramway Band, broadcast from Manresa  
Hall, North Sydney.  
9.15 p.m.—The Broadway Four (Male Quar-  
tette).  
9.22 p.m.—Mr. Gerald Walenn (violinist).  
9.29 p.m.—Miss Mary Neal (mezzo-contralto).  
9.36 p.m.—Broadcasters' Instrumental Trio.  
9.43 p.m.—The Broadway Four.  
9.50 p.m.—Mr. Gerald Walenn.  
9.57 p.m.—Miss Mary Neal.  
10.4 p.m.—Resume of following day's pro-  
gramme.  
Weather report and forecast by courtesy of  
Mr. Mares, Govt. Meteorologist.  
10.8 p.m.—Broadcasters' Instrumental Trio.  
10.15 p.m.—National Anthem.

2GB, SYDNEY

SUNDAY, 24th JUNE, 1928.

MORNING SESSION.

- 10.15 a.m.—Music from St. Alban's Liberal  
Catholic Church.  
10.30 a.m.—Morning Service.  
12 noon.—Close down.

EVENING SESSION.

- 4.30 p.m.—Service by Mr. H. Bradley.  
5.30 p.m.—Children's Session by Miss H. J.  
Beegling.  
7 p.m.—Lecture from Adyar Hall.  
8.15 p.m.—Sacred Concert by Straube Piano  
Co.  
10 p.m.—Close down.

2UW, SYDNEY

SUNDAY, 24th JUNE, 1928.

MORNING SESSION.

- 10.30 a.m.—Studio items.  
10.45 a.m.—Special H.M.V. Recital by courtesy  
of The Gramophone Co. 163 Pitt St. Sydney.  
11.30 a.m.—Vocal and instrumental selecti as.  
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 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, 24th JUNE, 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 to-morrow's papers.  
11 a.m.—MORNING SERVICE FROM THE  
INDEPENDENT CHURCH, COLLINS  
STREET, MELBOURNE:  
Hymn 6.  
Prayer and Lord's Prayer.  
Scripture Lesson.  
Hymn 194.  
Prayer.  
Anthem.  
Notices.  
Offerings.  
Hymn 381.  
SERMON: REV. GEORGE H. GUNSON.  
Hymn 446.  
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. 7, Op.  
92" (Beethoven).  
ROYAL PHILHARMONIC ORCHESTRA.  
(Conducted by Felix Weingartner.)  
2. ARIA: "O Colombina, il tenero fido  
Arlecchin" (Leoncavallo) — Pagliacci (in  
Italian).  
TITO SCHIPA, tenor.  
3. ARIA: "Una voce poco fa qui nel cor  
mi risuono"—Il Barbiere di Siviglia (in  
Italian) (Rossini).  
AMELITA GALLI-CURCI, soprano.  
4. MALE CHORUS: "Pilgrim's Chorus"—  
Tannhauser. Act 3 (Wagner).  
VICTOR MALE CHORUS.  
5. SONG: "Elegie Melodie" (in French)  
(Massenet).  
ENRICO CARUSO (the late tenor).  
(Violin obligato played by Mischa Elman).  
Accompaniment by Percy B. Kahn.



3 p.m.—PLEASANT SUNDAY AFTERNOON SERVICE—FROM CENTRAL MISSION, LONSDALE STREET, MELBOURNE:  
Chairman: Rev. J. H. Cain.  
Hymn No. 43, "Light of the World."  
Prayer—Rev. C. Irving Benson.  
Orchestral Selection. Mr. G. M. Williams, conductor.  
Hymn No. 37, "Jesus Keep Me Near the Cross."  
Solo, Miss Dorothy Humphreys.  
Orchestra.  
Solo, Miss Dorothy Humphreys.  
Notices.  
Offering.  
Orchestra.  
ADDRESS.  
National Anthem.  
Benediction.  
Orchestra.  
4.30 p.m.—Close down.

#### EVENING SESSION. CHILDREN'S HOUR.

6 p.m.—Answers to letters and birthday greetings by "BILLY BUNNY."  
6.25 p.m.—"BILLY BUNNY" has a special story to tell.  
6.45 p.m.—Bells from St. Paul's Cathedral.

#### NIGHT SESSION.

7 p.m.—EVENING SERVICE FROM ST. PAUL'S CATHEDRAL, MELBOURNE:  
Preacher: ARCHDEACON HANCOCK.  
Hymn (A. and M.) 414, "Lo from the Desert Homes."  
Sentence.  
Exhortation.  
General Confession.  
Absolution.  
The Lord's Prayer.  
Versicles and Responses.  
Psalms 20 and 21.  
Magnificat.  
1st Lesson: Malachi 4.  
Nunc Dimittis.  
2nd Lesson.  
The Apostles' Creed.  
The Collects.  
The Anthem, "Comfort ye, comfort ye, My people" (Handel).  
The prayers.  
Hymn 184, "Rock of Ages."  
The Sermon, ARCHDEACON HANCOCK.  
Hymn 27, "Abide with Me."  
The Benediction.

#### FROM THE STUDIO:

8.30 p.m.—Birthday greetings and programme announcements. Island shipping movements.  
8.33 p.m.—Record feature of the week.  
8.35 p.m.—BRUNSWICK CITY BAND:  
Overture, "The Poet's Holiday" (D'Alton).  
8.45 p.m.—GRAHAM BURGIN, baritone:  
"Till I Wake" (A. W. Finden).  
"Like as the Heart Desireth" (Allitsen).  
8.52 p.m.—FRANCOIS STEMPINSKI, violin:  
"Legend" (Wieniawski).  
"Chanson Indou" (Rimsky-Korsakov-Kreisler).  
9.2 p.m.—BRUNSWICK CITY BAND:  
Fantasia, "Minerva" (Richards).  
9.10 p.m.—SOUTHERN CHORAL SOCIETY:  
"Judge Me, O God" (Mendelssohn).  
"The Singers" (Mackenzie).  
First Prize Winners, Goulburn Contest, 1928.  
9.17 p.m.—BRUNSWICK CITY BAND:  
Air Varie, "Hanover" (Round).  
9.24 p.m.—GRAHAM BURGIN, baritone:  
"Vanity" (Hall).  
"Ha'pence and Blows" (Behrend).  
9.31 p.m.—FRANCOIS STEMPINSKI, violin:  
"Nocturne" (Chopin-Sarasiate).  
"Minuet" (Paderewski-Kreisler).  
9.38 p.m.—SOUTHERN CHORAL SOCIETY  
MALE CHORUS:  
"Twilight" (Dudley Buck).  
"The Song of the Northmen" (Maunder).  
9.45 p.m.—BRUNSWICK CITY BAND:  
Cornet solo, "Robin Adair" (Hartmann).  
Soloist, A. McEwen.  
9.52 p.m.—"Argus" News Service. Announcements.  
10 p.m.—OUR GREAT THOUGHT.  
"GOD SAVE THE KING."

## 3AR, MELBOURNE

SUNDAY, 24th JUNE, 1928.

#### MORNING SESSION.

10.45 a.m.—Announcements.  
11.0 a.m.—Service from St. Thomas' Church of England, Moonee Ponds. Preacher, Rev. P. J. Robinson.  
12.15 p.m.—The Regimental Band of His Majesty's Grenadier Guards:  
English Selection, "The Rose" (Middleton).  
In two parts.  
12.23 p.m.—Giuseppe Danise, Baritone:  
"Nemico della Patria," from Andrea Chenier.  
"Credo," from "Otello" (Verdi).  
12.31 p.m.—Quentin M. MacLean, Organ:  
"Classica Selection" (Montague Hwing). In two parts.  
12.39 p.m.—Rudy Wiedoeft, Saxophone:  
"Song of the Volga Boatmen."  
"La Paloma" (Yradier).  
12.45 p.m.—Columbia Concert Orchestra:  
"The Glow Worm" (Lincke).  
"The Broken Melody" (Van Biene).  
12.51 p.m.—Albert Spalding, Violin:  
"Waltz in A Major" (Brahms).  
"Minuet" (Mozart).  
12.57 p.m.—Charles Hackett, Tenor:  
"Songs My Mother Taught Me" (Dvorak).  
"Thank God for a Garden" (Del Riego).  
1.3 p.m.—Yovanovitch Bratza, Violin:  
"Lied Ohne Worte," song without words (Mendelssohn).  
1.9 p.m.—Milton Charles, Organ:  
"When Day is Done" (Matscher and De Sylva).  
"Just Once Again" (Donaldson and Ash).  
1.15 p.m.—Victor Sterling, Xylophone and Bell:  
March, "Sons of the Brave" (Thos. Bidgood).  
March, "With Sword and Lance" (H. Starke).  
1.21 p.m.—The Cherniavsky Trio:  
"Barcarolle," from Tales of Hoffman (Offenbach).  
"Spring Song" (Mendelssohn).  
1.27 p.m.—William Murdoch, Piano:  
"Marche Militaire" (Schubert). In two parts.  
1.35 p.m.—The J. H. Squire Celeste Octet:  
"Serenade" (Moszkowski).  
"Moment Musicale" (Schubert).  
1.41 p.m.—Theodore Ritch, Tenor:  
"The Dream Song," from Manon (Massenet).  
"E Lucevan le Stelle," from La Tosca (Puccini).  
1.47 p.m.—Johann Strauss' Orchestra:  
Selection, "The Bat" (Shaw). In two parts.  
1.55 p.m.—The Regimental Band of His Majesty's Grenadier Guards:  
March, "The Thin Red Line" (Alford).  
March, "The Firefighters" (Cellan Kottaun).  
2.0 p.m.—Close Down.

#### AFTERNOON SESSION.

3.0 p.m.—Ethel Brearley, Piano:  
"Hungarian Dance" (Brahms-Moszkowski).  
"Spring Song" (Mendelssohn).  
3.8 p.m.—Herbert Pettifer, Violin:  
"Hungarian Dance" (Brahms).  
"Chanson Meditation" (Cottenet).  
"Canzonette" (Tschaiakowsky).  
3.20 p.m.—Ernest Pettifer, Clarinet:  
"La Militaire" (Raymond).  
"Miranda" (Howgill).  
3.28 p.m.—Jean Lewis, Contralto:  
"The Spirit Song" (Haydn).  
"The Sandman" (Brahms).  
3.36 p.m.—Herbert Pettifer, Violin:  
"Hejre Kati" (Hubay).  
"Romance" (Wieniawski).  
"Liebeslied" (Kreisler).  
3.48 p.m.—Ernest Pettifer, Saxophone:  
"Valse Vanite" (Wiedoeft).  
"Lament D'Amour" (Herzberg).  
3.56 p.m.—James Scott, Bass Baritone:  
"Diaphenia" (Harold Samuels).  
"The Swan" (Grieg).  
4.0 p.m.—Ernest Pettifer, Clarinet, and Herbert Pettifer, Violin:  
Duet, "Allegro Sostenuto" (Fanning).  
Duet, "Lo! Hear the Gentle Lark" (La Thiere).  
4.12 p.m.—Jean Lewis, Contralto:  
"Only the Desolate" (Tschaiakowsky).  
"Lascia ch' io pianga" (Handel).

4.20 p.m.—Ernest Pettifer, Clarinet:  
"Concertino" (Weber).  
4.28 p.m.—Ethel Brearley, Piano:  
"Consolations" (Liszt).  
4.36 p.m.—Herbert Pettifer, Violin:  
"Scherzino" (Raff).  
"Allegretto from C Major Sonata" (Grieg).  
4.44 p.m.—James Scott, Bass Baritone:  
"Thy Beaming Eyes" (MacDowell).  
"Who Keeps the Sea" (Breville Smith).  
4.52 p.m.—Ernest Pettifer, Saxophone:  
"Dans L'Orient" (Wiedoeft-Savino).  
"Vision D'Amour" (Wiedoeft).  
5.0 p.m.—Special Children's Session.  
5.30 p.m.—Close Down.

#### EVENING CHURCH SESSION.

7.0 p.m.—Evening Service from St. John's Church, Ballarat.  
8.30 p.m.—Melbourne Concert Orchestra:  
"From Schubert's Sketch Book" (Ernst Urbach).  
8.47 p.m.—John Hobbs, Bass Baritone:  
"Why Do the Nations," from the Messiah (Handel).  
"I Will Not Grieve" (Schumann).  
8.55 p.m.—Herbert Pettifer, Violin Recital:  
"Sonata in G Major" (Grieg).  
9.8 p.m.—The Victoria Trio:  
"Elegie and Scherzo from Trio in D" (Arensky).  
9.18 p.m.—Melbourne Concert Orchestra:  
Tone Journey, "Mississippi" (Ferdie Grofe).  
9.29 p.m.—John Hobbs, Bass Baritone:  
"The Witch of Bowden" (F. S. Breville Smith).  
"Leanin'" (T. C. Sterndale Bennett).  
(Accompanied by the Melbourne Concert Orchestra.)  
9.37 p.m.—Melbourne Concert Orchestra:  
"Delibes Fantasie" (Ernst Urbach).  
9.52 p.m.—"Age" News Service, exclusive to 3AR.  
9.58 p.m.—Weather Forecast.  
9.59 p.m.—Our Australian Good Night Quote is taken from the poem, "Song," by Victor J. Daley.  
10.0 p.m.—God Save the King.

## 4QG, BRISBANE

SUNDAY, 24th JUNE, 1928.

#### MORNING SESSION.

The complete Morning Service will be relayed from St. Paul's Presbyterian Church.  
11 a.m.—Church Service.  
12.30 p.m.—Conclusion. Close down.

#### AFTERNOON SESSION.

The Concert by the Brisbane Citizens' Band will be relayed from the Botanic Gardens.  
3.15 p.m.—From the Botanic Gardens:  
Band Concert.  
4.30 p.m.—Close down.

#### NIGHT SESSION.

The complete Evening Service will be relayed from St. Paul's Presbyterian Church.  
7.30 p.m.—Church Service.  
8.30 p.m.—Conclusion.  
At the conclusion of the Church Service the Concert by the Brisbane Municipal Concert Band will be relayed from Wickham Park.  
9.30 p.m.—Close down.





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**6WF, PERTH**

SUNDAY, 24th JUNE, 1928.

**MORNING SESSION.**

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

**AFTERNOON SESSION.**

- 3.30 p.m.—Tune in.  
 3.35 p.m.—From the Studio:  
 Musical programme, 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 by Mr. Robert Edmondson.  
 7.30 p.m.—Evening service relayed from Wesley Church, Hay street, Perth.  
 Preacher: Rev. J. W. Grove, M.A., LL.B.  
 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.

**7ZL, HOBART**

SUNDAY, 24th JUNE, 1928.

**MORNING SESSION.**

- 11 a.m.—Church Service from St. David's Cathedral, Hobart: Preacher, The Dean.  
 Close down.

**AFTERNOON SESSION.**

- 3.30 p.m.—G.P.O. Clock chimes.  
 3.31 p.m.—Sonora Recital.  
 "Aldorstor Command Mossed Banks."  
 "Carmen." Selection in two Parts.  
 3.39 p.m.—Angelo Minghetto, tenor:  
 "The Gelida Manina" (Boheme).  
 "E. il Sol" (Rigoletto).  
 3.47 p.m.—Lenier String Quartette:  
 "Quartette in C. Minor."  
 4.11 p.m.—Dussolina Giannini, soprano (With Orchestral Accompaniment):  
 "Vissi d' arte, vissi d' amore" (Puccini).  
 "Voi Lo sapete, O mamma" (Cav. Rusticana-Mascagni).  
 4.19 p.m.—York Minster Choir (conducted by Mr. E. E. Bairstow):  
 "Christe pui lux es et dies."  
 "This Day Christ was Born."  
 4.30 p.m.—Close down.

**EARLY EVENING SESSION.**

- Children's Corner with the Radio Lady.  
 7 p.m.—Church Service from Methodist Church, Melville Street, Hobart: Preacher, Rev. Robert Williams.  
 8.25 p.m.—Sonora Recital:  
 "The Messiah" (Handel).  
 10.30 p.m.—Our Tasmanian Good-night Thought:  
 There is always time to find,  
 Ways of being sweet and kind,  
 There is always time to share  
 Smiles and goodness everywhere (Anon).  
 10.31 p.m.—The King.  
 10.32 p.m.—Close down.

**Monday, June 25****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: Dance and Popular Records.  
 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.  
 1.40 p.m.—Richard Parry, basso.  
 1.44 p.m.—Studio Music.  
 1.55 p.m.—Richard Parry, basso.  
 2 p.m.—"Big Ben." Close down.

**AFTERNOON SESSION.**

- 3.0 p.m.—"Big Ben" and announcements.  
 3.3 p.m.—"H.M.V." Record Recital.  
 3.30 p.m.—A Talk by "Delisse."  
 3.45 p.m.—Pianoforte Solos.  
 3.55 p.m.—Esther Herford, Soprano:  
 "Dearest I Bring You Daffodils" (Dorothy Forster).  
 4.0 p.m.—"Big Ben"; Noel Allen, Baritone:  
 (By permission of J. C. Williamson, Ltd.)  
 4.8 p.m.—From the Ambassadors: The Ambassadors' Dance Orchestra, conducted by Manuel Hyman.  
 4.20 p.m.—From the Studio:  
 Alice Pomroy, Soprano:  
 (a) "I Will Await Thee" (Coningsby Clerk).  
 (b) "Yellow Slippers" (Coningsby Clerk).  
 4.25 p.m.—Pianoforte Solos.  
 4.35 p.m.—Esther Herford, Soprano.  
 "Spring Dropped a Song Into My Heart" (Fenner).  
 4.40 p.m.—Noel Allen, Baritone (by permission of J. C. Williamson, Ltd.).  
 4.45 p.m.—Stock Exchange, third call.

- 4.47 p.m.—Alice Pomroy, Soprano:  
 "John" (Lohr).  
 4.50 p.m.—From the Ambassadors: The Ambassadors' Dance Orchestra.  
 5.0 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.—C. C. Faulkner will give a talk in connection with the Journalists' Ball.  
 7.0 p.m.—From the Hotel Australia: Dinner Music by the Hotel Australia Orchestra.  
 7.15 p.m.—Studio Music.  
 7.30 p.m.—"Evening News." Late News Service.

**NIGHT SESSION.**

- 7.40 p.m.—Programme announcements.  
 7.45 p.m.—Rus Garling:  
 A short radio sketch.  
 7.52 p.m.—Clifford Lathlean, basso.  
 8 p.m.—"Big Ben." The 2FC Studio Orchestra, conductor, Mr. Horace Keats:  
 Overture, "French Comedy" (Kela-Bela).  
 8.10 p.m.—Graham Kent will continue his series of talks on "Bridge," dealing this evening with:  
 "Studying Chances."  
 8.20 p.m.—Clifford Lathlean, basso.  
 8.28 p.m.—"A skit on our Racing Commissioner." Repeated by Rus Garling in response to many requests.  
 8.38 p.m.—2FC Studio Orchestra. Conductor, Mr. Manuel Hyman:  
 Suite, "Romantic" (Ketelby).  
 8.50 p.m.—Details of competition.  
 8.53 p.m.—2FC Studio Orchestra. Conductor, Mr. Horace Keats:  
 "A Musical Jig Saw" (Arr. Ashton).  
 9.6 p.m.—Weather intelligence.  
 9.7 p.m.—A recital of Irish traditional music with Quintet accompaniment.  
 Introduction; Irish airs for piano and four strings, under the baton of Mr. Horace Keats.  
 Oration: Rev. Father McNally.  
 Soli:  
 (a) "The Bard of Amah" (Hughes).  
 (b) "The Little Red Lark" (Stanford).  
 (c) "They know not my heart" (Wood).  
 To be interpreted by Mr. William Dallison, tenor, with Quintet Accompaniment.  
 10.5 p.m.—Len Maurice, baritone:  
 Popular Songs.  
 10.12 p.m.—2FC Studio Orchestra. Conductor, Mr. Horace Keats:  
 Selection from Wagner's opera, "The Flying Dutchman" (Arr. Vernet).  
 10.29 p.m.—Len Maurice, baritone:  
 Popular Songs.  
 10.36 p.m.—Late weather forecast.  
 10.37 p.m.—2FC Studio Orchestra. Conductor, Mr. Horace Keats:  
 "Haydn Woods' popular songs" (Chappel).  
 10.50 p.m.—Len Maurice:  
 Popular songs.  
 10.57 p.m.—Late news and to-morrow's programme.  
 11 p.m.—"Big Ben."  
 National Anthem.



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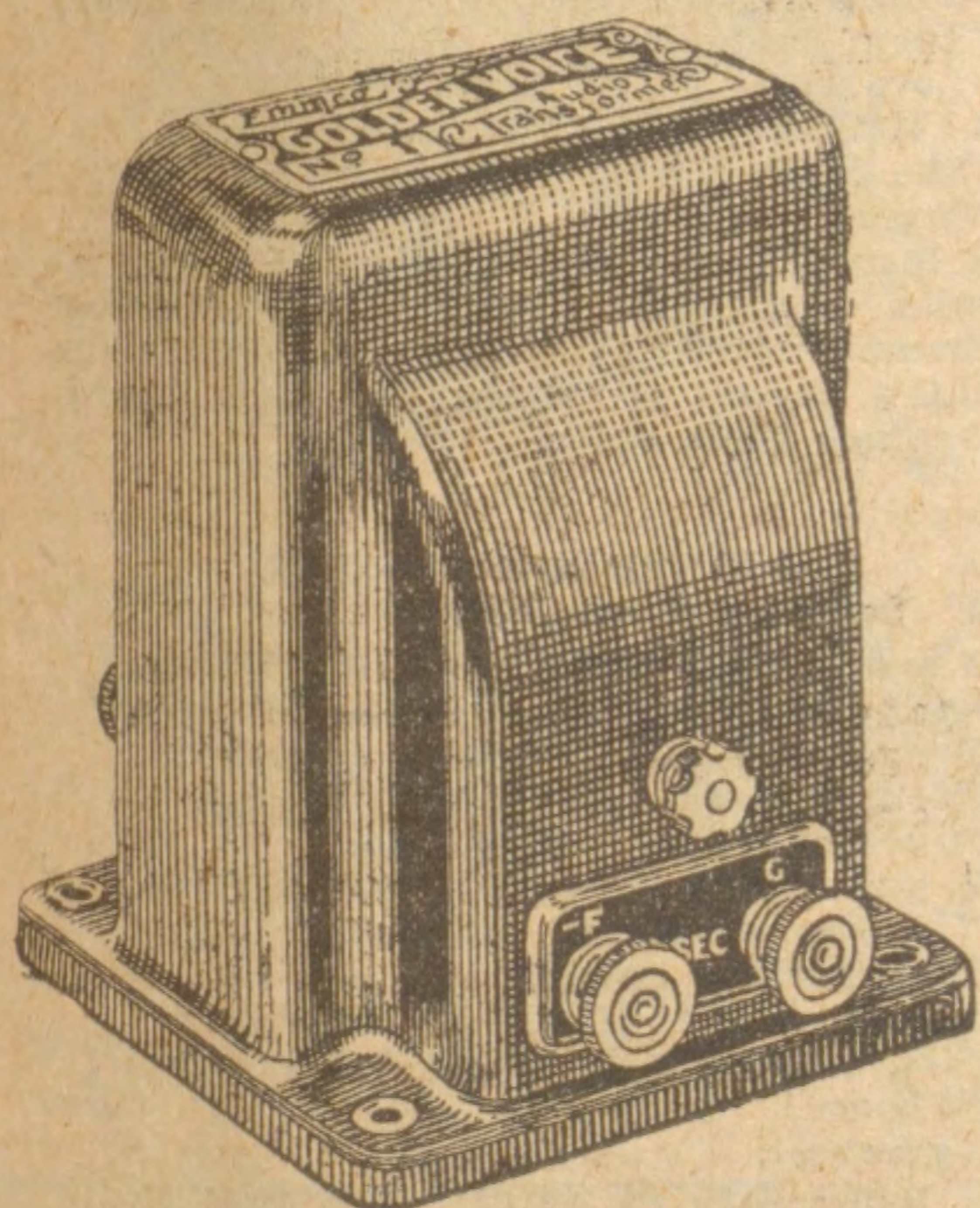
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**2BL, SYDNEY.**

MONDAY, 25th JUNE, 1928.

**EARLY MORNING SESSION.**

8.0 a.m. to 9.0 a.m.

**MORNING SESSION.**

10.30 a.m.—G.P.O. Clock and Chimes; Musical Programme from the Studio.  
 11.0 a.m.—G.P.O. Clock and Chimes; Talk on "Tennis," by Miss Gwen Varley, Broadcasters' Women's Sports Authority.  
 12.0 noon.—G.P.O. Clock and Chimes; Special Ocean Forecast and Weather Report.  
 12.3 p.m.—Musical Programme from the Studio.  
 12.12 p.m.—Information; Mails, Shipping and Port Directory.  
 12.16 p.m.—Boats in Call by Wireless.  
 12.18 p.m.—Fruit Market Report.  
 12.20 p.m.—Vegetable Market Report.  
 12.22 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.  
 2.0 p.m.—G.P.O. Clock and Chimes; Close Down.

**AFTERNOON SESSION.**

Race Results from Epping Trots, broadcast immediately after each race, by courtesy of the "Sun."  
 3.0 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.  
 4.0 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.  
 5.0 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.**

7.0 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").  
 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.  
 8.0 p.m.—G.P.O. Clock and Chimes.  
 8.1 p.m.—Mr. Roger Jones (Baritone).  
 8.8 p.m.—The Wurlitzer Organ, broadcast from the Arcadia Theatre, Chatswood. Organist, Mr. N. Robins.  
 8.20 p.m.—Miss Dulcie Starkey (Soprano).  
 8.27 p.m.—The Mosman Municipal Band.  
 8.45 p.m.—Broadcast from the Stadium: A description of the Wrestling Contest, by Mr. Walter E. Withrow.  
 9.45 p.m.—From the Studio: Talk on the Journalists' Ball, by Mr. C. C. Faulkner.

9.48 p.m.—The Mosman Municipal Band.  
 10.0 p.m.—Mr. Roger Jones.  
 10.7 p.m.—Miss Dulcie Starkey.  
 10.14 p.m.—Resume of Following Day's Programme.  
 10.18 p.m.—The Wurlitzer Organ, broadcast from the Arcadia Theatre, Chatswood.  
 10.30 p.m.—Romano's Restaurant Dance Orchestra, under the Direction of Mr. Merv Lyons.  
 During intervals between dances "Sun" News will be broadcast.  
 11.30 p.m.—G.P.O. Clock and Chimes; National Anthem.

**2GB, SYDNEY**

MONDAY, 25th JUNE, 1928.

**MORNING SESSION.**

10 a.m.—Music.  
 10.10 a.m.—Happiness Talk.  
 10.20 a.m.—Music.  
 10.30 a.m.—Women's Session.  
 11.15 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.  
 8 p.m.—Opening Chorus.  
 8.2 p.m.—Sid and Molly Owen and Joy Slatyer. Instrumentalists.  
 8.9 p.m.—Songs by Mr. Leslie Herford.  
 8.15 p.m.—Address.  
 8.30 p.m.—Flute Solos by Mr. Leslie Sproule.  
 8.38 p.m.—Humorous Items by Miss Mollie Kirwan.  
 8.45 p.m.—Sid and Molly Owen and Joy Slatyer. Instrumentalists.  
 8.53 p.m.—Songs by Mr. Leslie Herford.  
 9 p.m.—Talk by Mr. Stan Crittendon.  
 9.20 p.m.—A One Act Play arranged by Miss Mollie Kirwan.  
 9.50 p.m.—Flute solos by Mr. Leslie Sproule.  
 10 p.m.—Close down.

**2 UW, SYDNEY**

MONDAY, 25th JUNE, 1928.

**EVENING SESSION.**

7 p.m.—Studio items.  
 7.10 p.m.—Where to go session.  
 7.14 p.m.—Dinner music.  
 8 p.m.—Studio selection.  
 8.7 p.m.—News items, mails and shipping.  
 8.20 p.m.—Mrs. A. Dalton, pianoforte solo: Selected.  
 8.26 p.m.—Studio item.  
 8.32 p.m.—Miss Vera Turner, soprano: Selected.  
 8.38 p.m.—Mrs. A. Pearce, violin solo: Selected.  
 8.46 p.m.—Weather forecast.  
 8.50 p.m.—Miss Lilley, Mezzo contralto: Selected.  
 8.57 p.m.—Studio selection.  
 9.3 p.m.—Mrs. A. Dalton, pianoforte solo: Selected.  
 9.10 p.m.—Miss Vera Turner soprano solo: Selected.  
 9.16 p.m.—Studio selection.  
 9.20 p.m.—Mrs. A. Pearce, violin solo: Selected.  
 9.27 p.m.—Miss Lilley, mezzo contralto: Selected.  
 9.32 p.m.—Dance music and request numbers.  
 10 p.m.—Announcements and close down.

**3LO, MELBOURNE.**

MONDAY, 25th JUNE, 1928.

**SHORT WAVE TRANSMISSION.**

4.30 a.m.—Short Wave Transmission on 32 Metres.  
 6.30 a.m.—Close down.

**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 p.m.—Express train information.  
 8.2 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.—FLORA PELL, Inspector of Schools, will speak on "Cookery."  
 11.20 a.m.—Musical interlude.  
 11.25 a.m.—W. J. G. TURNER, secretary of the Austin Hospital for Chronic Diseases, will speak on the work of the hospital.  
 11.40 a.m.—Musical Interlude.  
 11.45 a.m.—LADY MASSON, Chairman of the Welcome and Welfare Committee of the New Settlers' League, will speak on "The Work of the League."

**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. News service.  
 12.20 p.m.—COMMUNITY SINGING from the Assembly Hall, Collins Street, Melbourne (Conductor, G. J. MACKAY), assisted by—THE GYPSY PLAYERS.

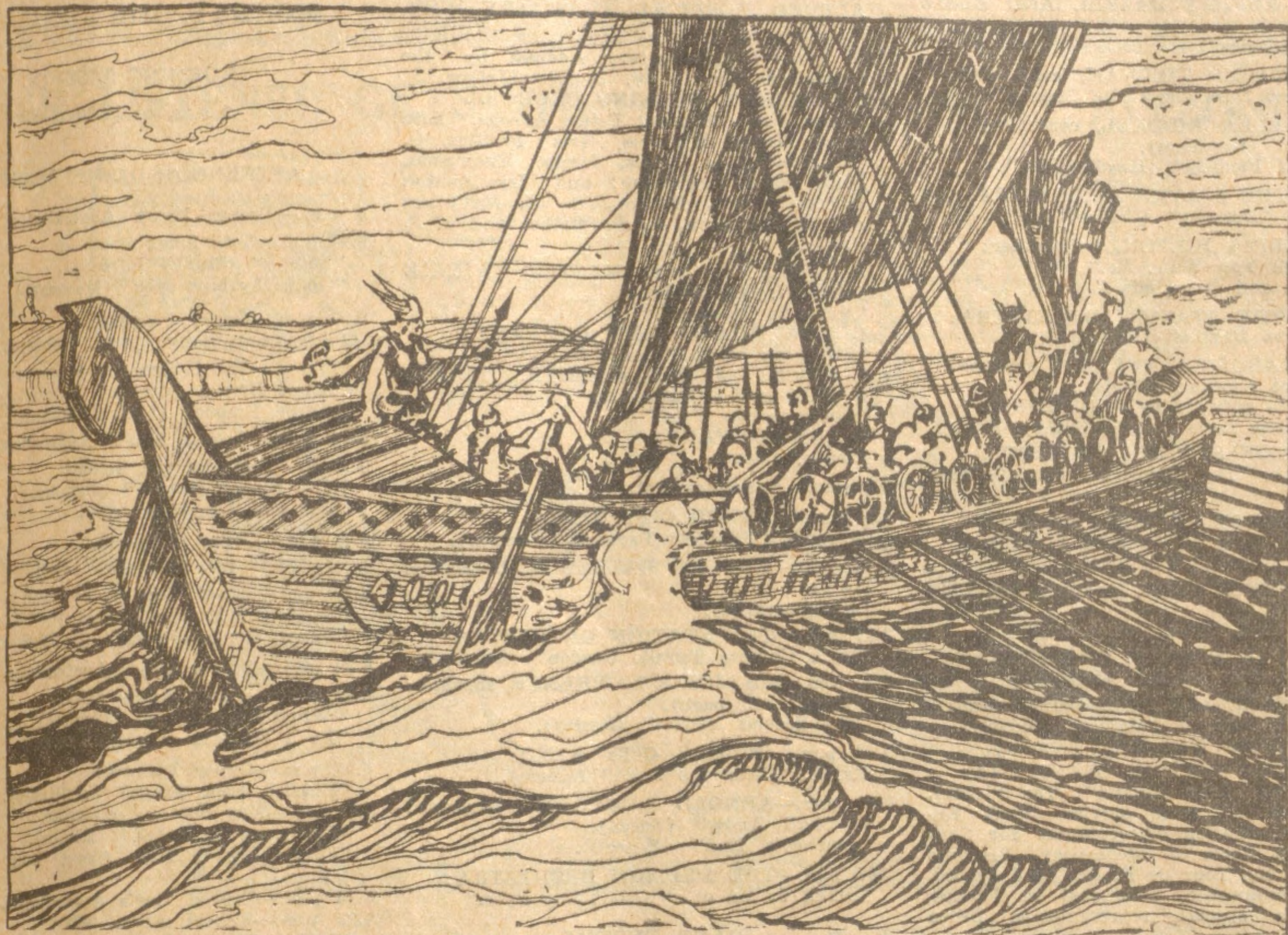
**Artists:**

MARJORIE LAWRENCE, soprano  
 (Winner of "The Sun News-Pictorial" Aria):  
 "Turn Ye to Me."  
 "Love is a Merry Carpenter."  
 J. HOWARD KING, bass-baritone:  
 "She is Far from the Land" (Lambert).  
 "Trees" (Rasbach).  
 1.45 p.m.—Stocks and weather. Progress results of the Tour de France road cycling championship, conducted in France (by 3LO's special representative, Bruce Small).  
 1.55 p.m.—Close down.

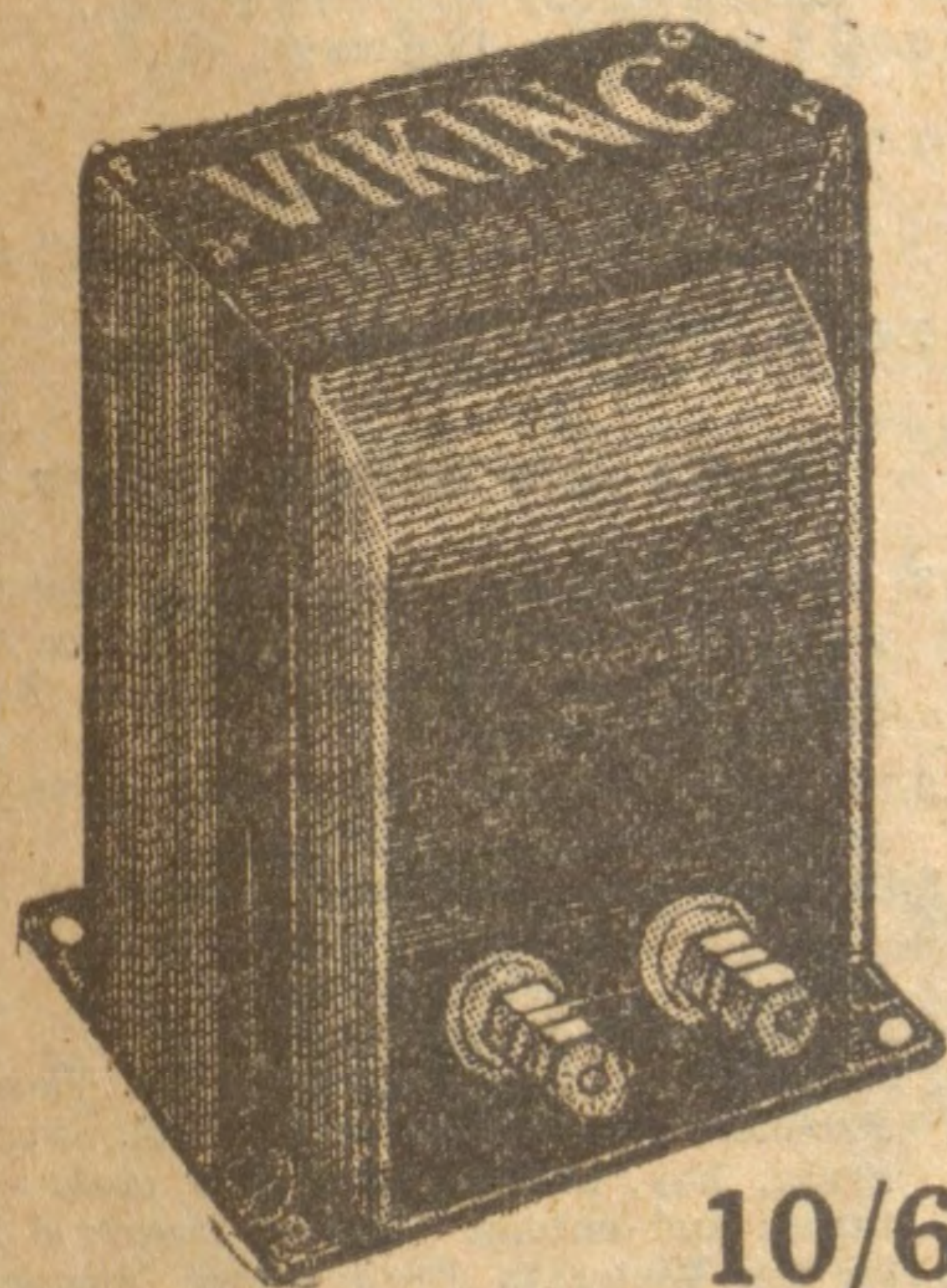
**AFTERNOON SESSION.**

2.15 p.m.—THE STATION ORCHESTRA: Selection, "Gilbert and Sullivan Songs."  
 2.25 p.m.—ELLA RIDDELL, contralto:  
 "Melisande in the Wood" (Goetz).  
 "My Dear Soul" (Sanderson).  
 2.32 p.m.—THE STATION ORCHESTRA:  
 "Un Peu d'Amour" (Silesu).  
 "The Turkish Patrol."  
 2.40 p.m.—RITA HILTON, entertainer:  
 "You Made Me Love You" (McCarthy).  
 "Whoops! Let's Do It Again" (Hargreaves).  
 2.47 p.m.—ROGER SMITH, trombone solo:  
 "Berceuse"—from Jocelyn.  
 2.45 p.m.—BOBBY PEARCE, baritone:  
 "Down the Vale" (Moir).  
 "A Farewell" (Liddle).





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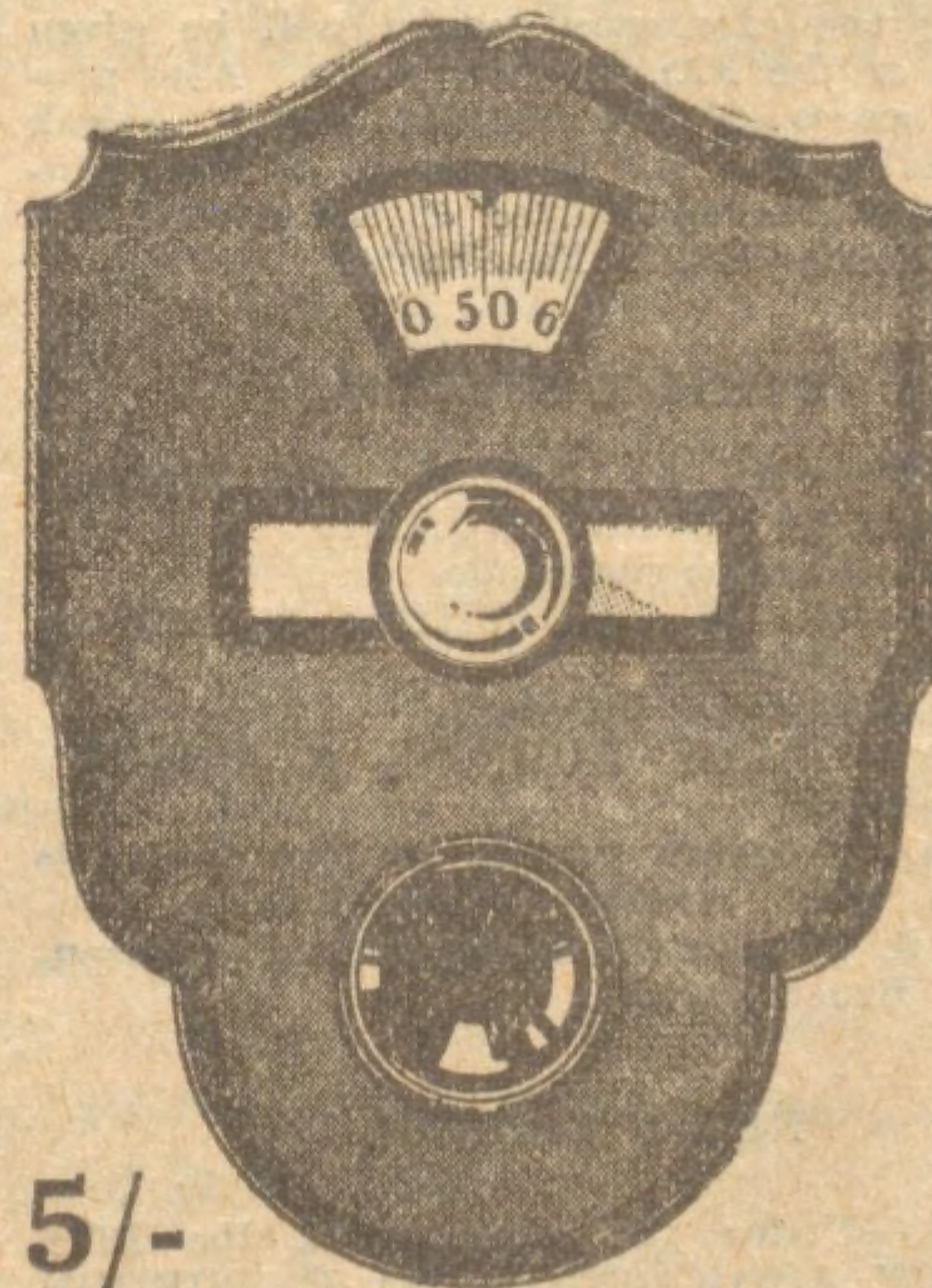


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## 3AR, MELBOURNE

MONDAY, 25th JUNE, 1928.

MORNING SESSION.

9 a.m. to 12.30 p.m.

AFTERNOON DANCE SESSION.

- 5 p.m.—Trevor May's Australians.  
 5.15 p.m.—Tom Semple, tenor:  
 "Beauty" (Muriel Herbert).  
 "Open thy blue eyes" (Massenet).  
 5.22 p.m.—Gypsy Players:  
 "Schumann Songs" (Ar. Roberts).  
 5.37 p.m.—Ethel Heaney, soprano:  
 "Little Brown Cottage" (Dickson).  
 "Annie Laurie" (Liza Lehmann).  
 5.44 p.m.—Trevor May's Australians.  
 6 p.m.—Tom Semple, tenor:  
 "The Fisher Maiden" (Schubert).  
 "For you Alone" (Geel).  
 6.7 p.m.—Gypsy Players:  
 "Entracte and Dansades" (Gounod).  
 6.17 p.m.—Ethel Heaney, soprano:  
 "Songs My Mother Taught Me" (Dvorak).  
 "Dawn, Gentle Flower" (S. Bennett).  
 6.24 p.m.—Trevor May's Australians.  
 6.50 p.m.—Robert Allen, alto:  
 "When I go Home" (Towner).  
 "To a Miniature" (May Brahe).  
 6.57 p.m.—Gypsy Players:  
 "English Folk Songs" (Williams).  
 7.7 p.m.—May Seaton, soubrette:  
 "The Song is Ended" (Berlin).  
 "Everything is Nice About You" (Wendling).  
 7.14 p.m.—Trevor May's Australians.  
 7.24 p.m.—Robert Allen, alto:  
 "Smilin' Through" (Penn).  
 "Red Devon by the Sea" (Clarke).  
 7.30 p.m.—Gypsy Players:  
 "Quartet" (Hady).  
 7.40 p.m.—Mae Seaton, soubrette:  
 "Broken Hearted" (Henderson).  
 "Put your Arms Where they Belong" (Ackman).  
 7.47 p.m.—Trevor May's Australians.

NEWS AND MARKET REPORTS.

- 8 p.m.—Newmarket stock sales. Official report of Newmarket stock sales, by the Associated Stock and Station Agents, Bourke Street, Melbourne.  
 8.10 p.m.—"Herald" news service. Weather synopsis. Shipping movements.  
 8.12 p.m.—Stock Exchange information.  
 8.17 p.m.—Fish market reports by J. R. Borrett, Ltd. Rabbit prices.  
 8.19 p.m.—River reports.  
 8.21 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.  
 8.30 p.m.—Studio Orchestra:  
 "Minuetan Spiele" (Oscar Petras).  
 "Am das Meer" (MacDowell).  
 8.45 p.m.—Carrie Gray, soprano:  
 "The Winds in the South" (Scott).  
 "The Star" (Rogers).  
 8.52 p.m.—The Victoria Trio:  
 Selected.  
 9 p.m.—G. Eiby, tenor:  
 "Vesta la Guiba" (Leoncavello).  
 "Lord Randal" (Scott).  
 9.7 p.m.—Mr. Alfred Firman, talk:  
 "Books of yesterday, to-day, and to-morrow."  
 9.22 p.m.—Studio Orchestra:  
 Selection, "Merry England" (German).  
 "Nodding Daffodils" (H. Clarke).

3.1 p.m.—THE STATION ORCHESTRA:  
 Selection, "Miss Hook of Holland" (Rubens).  
 3.11 p.m.—RUPERT HAZELL AND ELSIE DAY:  
 "Harmonylarity."

3.25 p.m.—TASMA TIERNAN, 'cello solo:  
 "Movement from the Grieg Sonata."

3.30 p.m.—ELLA RIDDELL, contralto:  
 "Husheen" (Needham).  
 "Roses of Picardy" (Haydn Wood).

3.37 p.m.—THE STATION ORCHESTRA:  
 Selection, "Dorothy" (Cellier).

3.47 p.m.—RITA HILTON, entertainer:  
 "I'll Make You Want Me."  
 "Get Out and Get Under."

3.54 p.m.—THE STATION ORCHESTRA:  
 "Hungarian Dances" (Brahms).

4.4 p.m.—MARCELLE BERARDI, soprano:  
 "Charmant Oiseau" (Davis).  
 (With flute obligato by J. O. Barille).  
 "A Japanese Love Song" (Brahe).

4.11 p.m.—THE STATION ORCHESTRA:  
 Overture to "The Flying Dutchman" (Wagner).

4.21 p.m.—BOBBY PEARCE, baritone:  
 "Kashmiri Song" (Woodford Finden).  
 "An Old Garden" (Temple).

4.28 p.m.—PERCY CODE, Trumpet, and KEN HALLAM:  
 Trumpet duet, "The Two Imps."

4.32 p.m.—THE STATION ORCHESTRA:  
 Suite, "Cobweb Castle" (Lehman).

4.42 p.m.—MARCELLE BARARDI, soprano:  
 "The Last Rose of Summer" (Moore).  
 "Love, I Have Won You" (Ronald).

4.49 p.m.—THE STATION ORCHESTRA:  
 "Three Songs from Eliland" (Von Fielitz).

5 p.m.—"Herald" news service, Stock Exchange information. Acceptances for Sandown Park Races on Wednesday. Progress results of the Tour de France road cycling race championship, conducted in France (by 3LO's special representative, Bruce Small).

5.15 p.m.—Close down.

During the afternoon results will be given hourly of the Fitzroy pony races. Also progress scores of the billiard match, Frank Ferrara (South Africa) versus Walter Lindrum (Australia), played at the Alcock Billiard Room, South Melbourne.

EVENING SESSION.

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

6.20 p.m.—Musical interlude.

6.25 p.m.—W. H. BUTCHER: A Talk on "Postage Stamps."

6.40 p.m.—Musical interlude.

6.45 p.m.—"BILLY BUNNY": A Story for the Children.

7.10 p.m.—Progress results of the Tour de France road cycling championship, conducted in France (by 3LO's special representative, Bruce Small).

NIGHT SESSION.

7.15 p.m.—Under the auspices of the BOY SCOUTS' ASSOCIATION, Dr. C. GORDON McADAM: Scouting News.

7.30 p.m.—E. C. H. TAYLOR will speak to Young Australia on "School Life and School Sport."

7.45 p.m.—OUT OF THE PAST.

7.46 p.m.—Under the auspices of the DEPARTMENT OF AGRICULTURE: R. T. ARCHER, Senior Dairy Inspector, will speak on "Pig Feeding Trials"—Results.

8 p.m.—A MAKER OF HISTORY.

8.1 p.m.—COBURG CITY BAND:  
 Fantasia, "Windermere" (Raynor).

8.10 p.m.—MARJORIE LAWRENCE, soprano:  
 "Annie Laurie" (Lehmann).  
 "Holy Night" (Max Vogrich).

8.17 p.m.—COBURG CITY BAND:  
 Waltz, "Woodland Blossoms."

8.25 p.m.—GUY MOORE, tenor:  
 "Ships of Arcady" (Head).

"Songs of the Palanquin Bearers" (Shaw).

8.32 p.m.—COBURG CITY BAND:

March, "Silver Wreath."

Novelty, "Tiny Tots" (Reid).

ALFRED HOSPITAL AUXILIARY PIER-ROTS.

8.42 p.m.—1. Introductory Address by the Organiser, Mr. C. W. Danvers-Walker.

2. COMPANY, OPENING CHORUS.

Misses Jessie Shmith, Felice Aarons, Rita Britt, Madge Williams, Iris Phillips, G. Richardson, L. Millis, Hetty Thompson, Hilda Book (recitation) and Iris Ashton (accompanist). Messrs. S. J. McKersie, Arthur Stevenson, A. D. Walker and T. F. Power.

3. COMPANY and MASTER WINKIE SHMITH, Xylophone:  
 "Marimba Medley."

4. RITA HILTON AND COMPANY:

"Swinging on a Rainbow."

5. MISSES JESSIE SHMITH, FELICE AARON and COMPANY:

"Come to the Fair."

6. THE COMPANY:

Finale: Chorus.

9.2 p.m.—Announcements.

9.5 p.m.—COBURG CITY BAND:

Gavotte, "Fireflies' Parade" (Rimmer).

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

"Harmonylarity."

9.27 p.m.—THE STATION ORCHESTRA:

"In a Chinese Temple Garden" (Ketelby).

9.35 p.m.—MARJORIE LAWRENCE, soprano:

"Trees" (Rasbach).

"The Second Minuet" (Besley).

9.43 p.m.—COBURG CITY BAND:

March, "Clear the Road" (Hume).

9.50 p.m.—ARNOLD ASHWORTH, baritone:

"I Shall Know" (Zucca).

"Journey's End" (Russell).

9.57 p.m.—THE STATION ORCHESTRA:

"Drink to Me only with Thine Eyes."

PIANO RECITAL.

10 p.m.—WILLIAM G. JAMES, piano:

"Le Con Con" (Daquin).

"Missiretto" (Beethoven).

"Toccata" (Mossingalli).

"Rhapsody" (Liszt).

NEWS SESSION.

10.20 p.m.—"Argus" News Service. Meteorological information. British official wireless. News from Rugby. Announcements.

10.30 p.m.—THE STATION ORCHESTRA:  
 "In Toyland"—Baby's Birthday March (Finck).

Baby dreams he is in Toyland. Astride a splendid rocking horse he is waving his wooden sword and leading his little Tin Soldiers to victory. Hark—a trumpet call! The hated Bogey Man is upon them! He fires a sugar cannon loaded with "Chocks"—the Bogey Man flies in confusion. Baby's Tin Brigade has won. Cock-a-doodle-doo!

10.40 p.m.—GUY MOORE tenor:

"Maire My Girl" (Aitken).

"Old Man Might Have Been" (Besley).

10.47 p.m.—THE STATION ORCHESTRA:  
 Selection from "Canary Cottage."

10.54 p.m.—ARNOLD ASHWORTH, baritone:

"What the Red-Haired Bosun Said" (Harrhy).

"Tops'l Halyards" (Harrhy).

11 p.m.—OUR GREAT THOUGHT.

DANCE MUSIC.

11.1 p.m.—THE VAGABONDS.

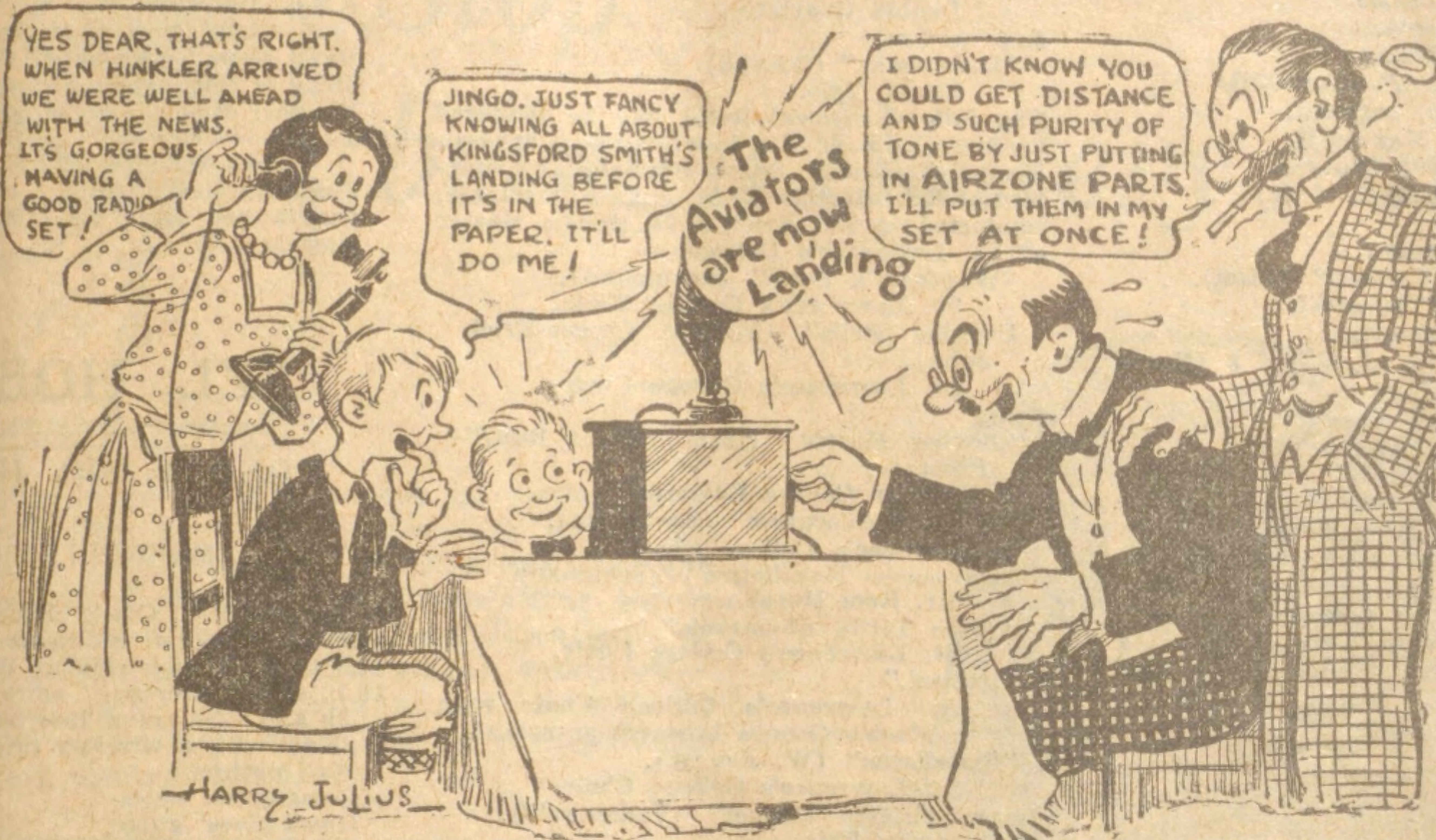
11.15 p.m.—Final scores of to-day's session of the Billiard Match, Frank Ferrara versus Walter Lindrum, played at the Alcock Billiard Room, South Melbourne.

11.16 p.m.—THE VAGABONDS.

11.40 p.m.—"GOD SAVE THE KING."



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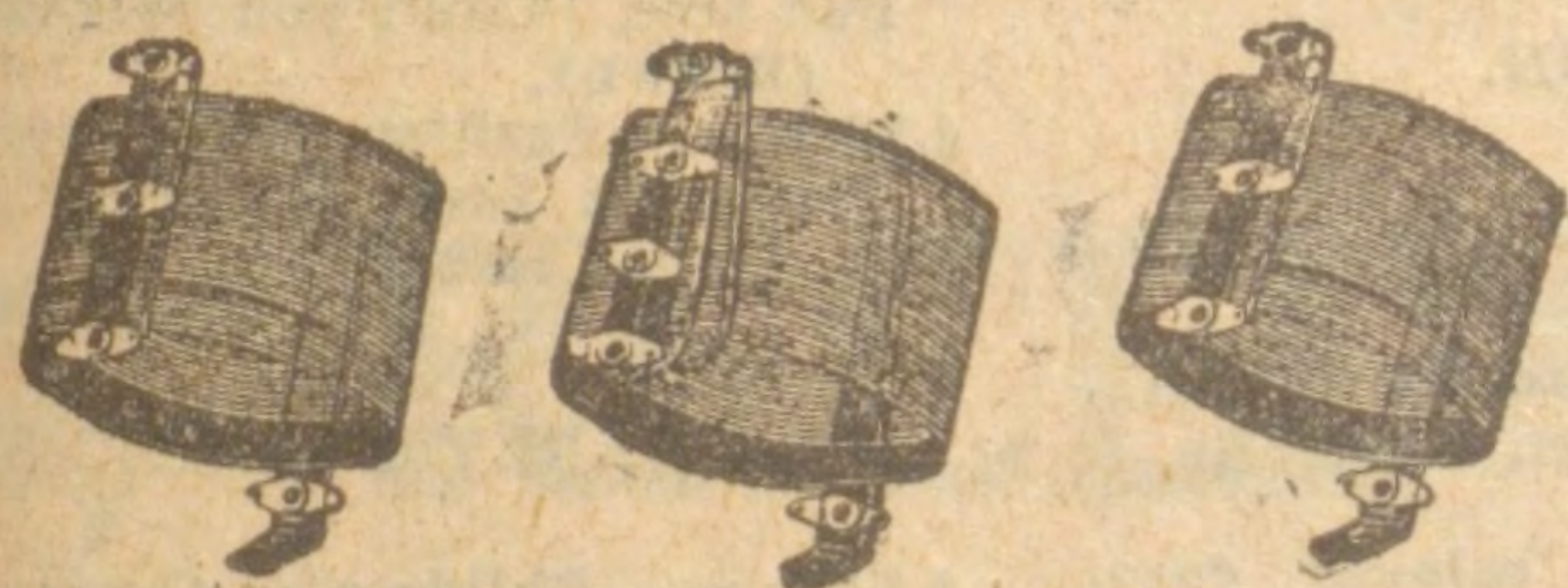


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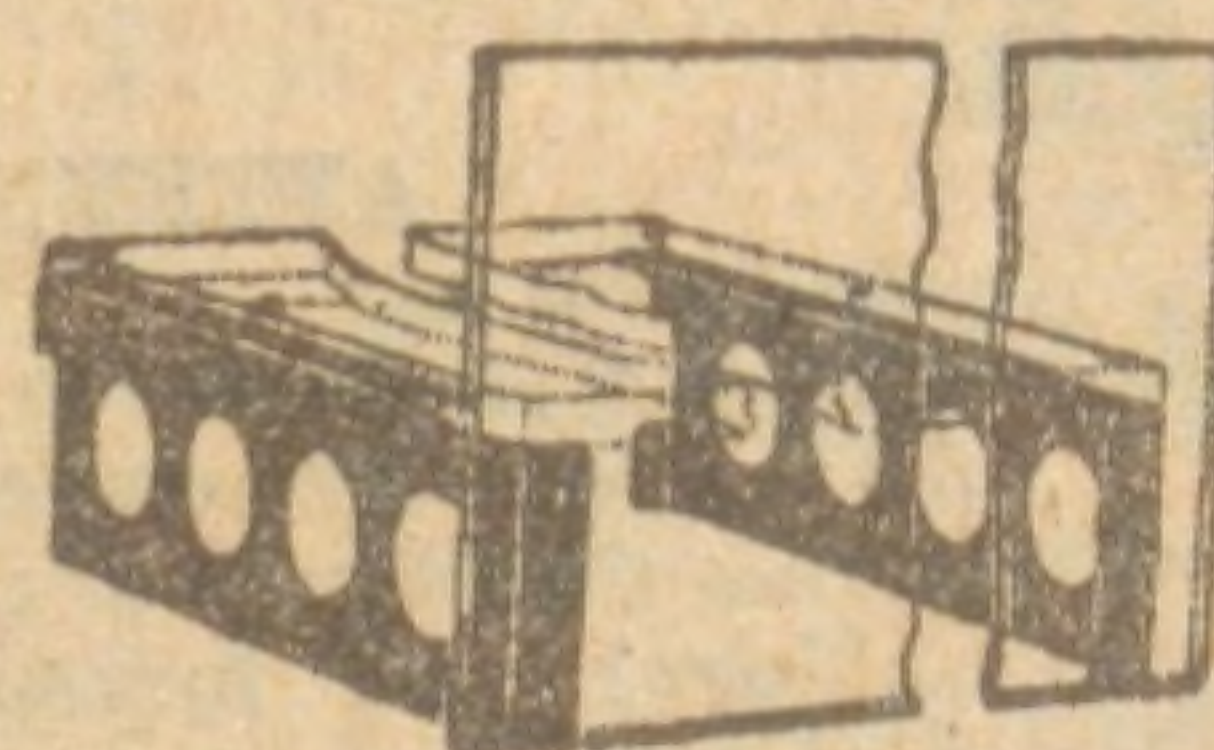


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## HAVE YOU HEARD THE AIRZONE PORTABLE?



9.27 p.m.—Norman Pill, comedian:  
"No! I don't like to do that."  
Recital, "Wheels."  
9.44 p.m.—Robert Adams, trumpet, and Ken  
Code, trombone:  
Duet, "Battle Eve."  
Duet, "A Night in Venice."  
9.50 p.m.—Announcements.  
9.55 p.m.—Studio Orchestra:  
"Four Spanish Pictures" (Luzzatti).  
10.5 p.m.—Carrie Gray, soprano:  
"The Singer" (Elsa Maxwell).  
"A Heart that's Free" (Robyn).  
10.12 p.m.—Charles Russell, flute:  
"Polonaise" (Burre).  
10.18 p.m.—G. Eiby, tenor:  
"Flower song from Carmen" (Bizet).  
"I heard you singing" (Coates).  
10.26 p.m.—Studio Orchestra:  
"Spanish Dances," Nos. 3, 4 and 5 (Moszkowski).  
10.36 p.m.—Norman Pill, comedian:  
"At the moving job last Saturday."  
Recital, "Number engaged."  
10.43 p.m.—Studio Orchestra:  
"Three Arabian Dances" (Chappell).  
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, "Romance," by Vic-  
tor J. Daley.  
11 p.m.—God Save the King.

## 4QG, BRISBANE.

MONDAY, 25th JUNE, 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 signals.  
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 science talk: "Hills and Valleys"  
by Mr. Inigo Jones.  
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 report.  
7.30 p.m.—Weather information.  
7.40 p.m.—Announcements.  
7.43 p.m.—Standard time signals.  
7.45 p.m.—Lecturette: "Winter Care of Pigs"  
Mr. E. J. Shelton (Inspector in Pig Raising).

### NIGHT SESSION.

8 p.m.—From The Studio:  
A programme arranged by Mr. Erich John.  
Topical Chorus.  
Instrumental: "Cavatina" (Vincent).  
String Trio.  
"Peasant's Serenade Chorus" (from  
"Faust"—Gounod).  
Double Quartette.

Duet:  
"Why Listen to the Carols" (from "Ruy  
Blas"—Mendelssohn).  
Messrs. George Williamson and Jack Lord  
(tenor).  
"Twilight" (from "Lucia di Lammermoor"  
—Donizetti).  
Double Quartette.  
Instrumental:  
"Humoreske" (Dvorak).  
String Trio.  
The following vocal items will be rendered  
by the Choir of St. Lawrence's (Christian  
Brothers) College, South Brisbane (by cour-  
tesy of Rev. Brother T. W. Jones, Principal),  
conducted by Mr. Erich John (Music Master  
of St. Lawrence's College):—  
"Wanderer's Song" (Schumann).  
St. Lawrence's College Choir.  
Evening Bells" (Michael Croger-Erich  
John).  
St. Lawrence's College Choir.

Solo:  
"Loving Hearts" (from "Magic Ruby"—  
Proctor).  
Master George Edwards.  
"Nature's Adoration" (Beethoven).  
St. Lawrence's College Choir.  
Piano solo—"Novellettes" (Schumann).  
Mr. Rees Morgan.  
"Dear Little Shamrock."  
St. Lawrence's College Choir.  
"Ireland."  
St. Lawrence's College Choir with  
Master George Edwards as soloist.  
"Benedictus" (W. Aspray).  
St. Lawrence's College Choir.  
Instrumental: "Minuet" (Paderewski).  
String Trio.

9 p.m.—Metropolitan weather forecast.  
9.1 p.m.—"The Master Speaks." An imaginary  
episode in the life of Beethoven, written  
specially for radio transmission by Michael  
Croger. The role of Beethoven will be played  
by Mr. John Morrison, and the musical num-  
bers which are taken from the Master's  
works, will be rendered by Mr. Erich John's  
Party. The production rehearsed under the  
supervision of the author.  
10 p.m.—An impromptu programme of music  
by the Brisbane Excelsior Band.  
10.30 p.m.—"The Daily Mail" news.  
Weather news.  
Close down.

## 6WF, PERTH.

MONDAY, 25th JUNE, 1928.

### MORNING SESSION.

12.30 p.m.—Tune in.  
12.35 p.m.—Markets, News, and tables.  
1 p.m.—Time signal.  
1.1 p.m.—Weather notes supplied by the Me-  
teorological Bureau of Western Australia.  
1.2 p.m.—Lunch Hour Music,  
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 Souef, Direc-  
tor of the Zoological Gardens, South Perth.  
8 p.m.—Time signal.

8.1 p.m.—Weather notes supplied by the Me-  
teorological Bureau of Western Australia.  
Station announcements such as alterations to  
programmes, etc.  
8.3 p.m.—Band Night:  
Concert by the R.S.L. Band, conducted by  
Mr. W. A. Halvorsen, relayed from the  
R.S.L. Institute.  
10 p.m.—Late news items by courtesy of "The  
Daily News" Newspaper Co.  
Ships within range announcement.  
Weather report and forecast.  
10.30 p.m.—Close down.  
104.5 METRE TRANSMISSION.  
Simultaneous broadcast on 104.5 metres of  
programme given on 1250 metres, commen-  
cing at 6.45 p.m.

## 7ZL, HOBART

MONDAY, 25th JUNE, 1928.

### MORNING SESSION.

1 a.m.—G.P.O. Clock chimes the hour.  
11.1 a.m.—Special Midlands Weather forecast.  
11.5 a.m.—British Official Wireless news.  
11.10 a.m.—"Mercury" morning news service.  
11.30 a.m.—Shipping information.  
Ships within wireless range.  
Mail notices.  
Commercial news.  
Housewives' guide.  
Foreign Exchange selections.  
11.45 a.m.—Musical selections.  
11.50 a.m.—What's Doing. Amusement guide.  
11.55 a.m.—Tasmanian Weather Stations 9 a.m.  
reports.  
12 noon.—G.P.O. Clock chimes.  
Close down.

### MATINEE SESSION.

3 p.m.—G.P.O. Clock chimes the hour.  
3.1 p.m.—Musical selection.  
3.5 p.m.—Hobart Stock Exchange Quotations.  
Weather information.  
Items of interest.  
3.15 p.m.—Special engagement of Mr. Ralph  
Thomas (entertainer) who will be heard  
in several Humorous numbers during the  
intervals of this session.  
Selections by 7ZL Studio Trio:  
Selection, "Student Prince" (Romberg).  
Dance, "Les Sabots" (Elliott).  
Clarinet solo, Selected, Mr. Arthur Young.  
Valse, "Claudine" (Flutcher).  
Fox trot, "Can't you hear me say I love you?"  
(Brown).  
4.15 p.m.—Fashion Talk by Aunt Edna of  
Brownells Ltd., Hobart.  
4.30 p.m.—Close down.

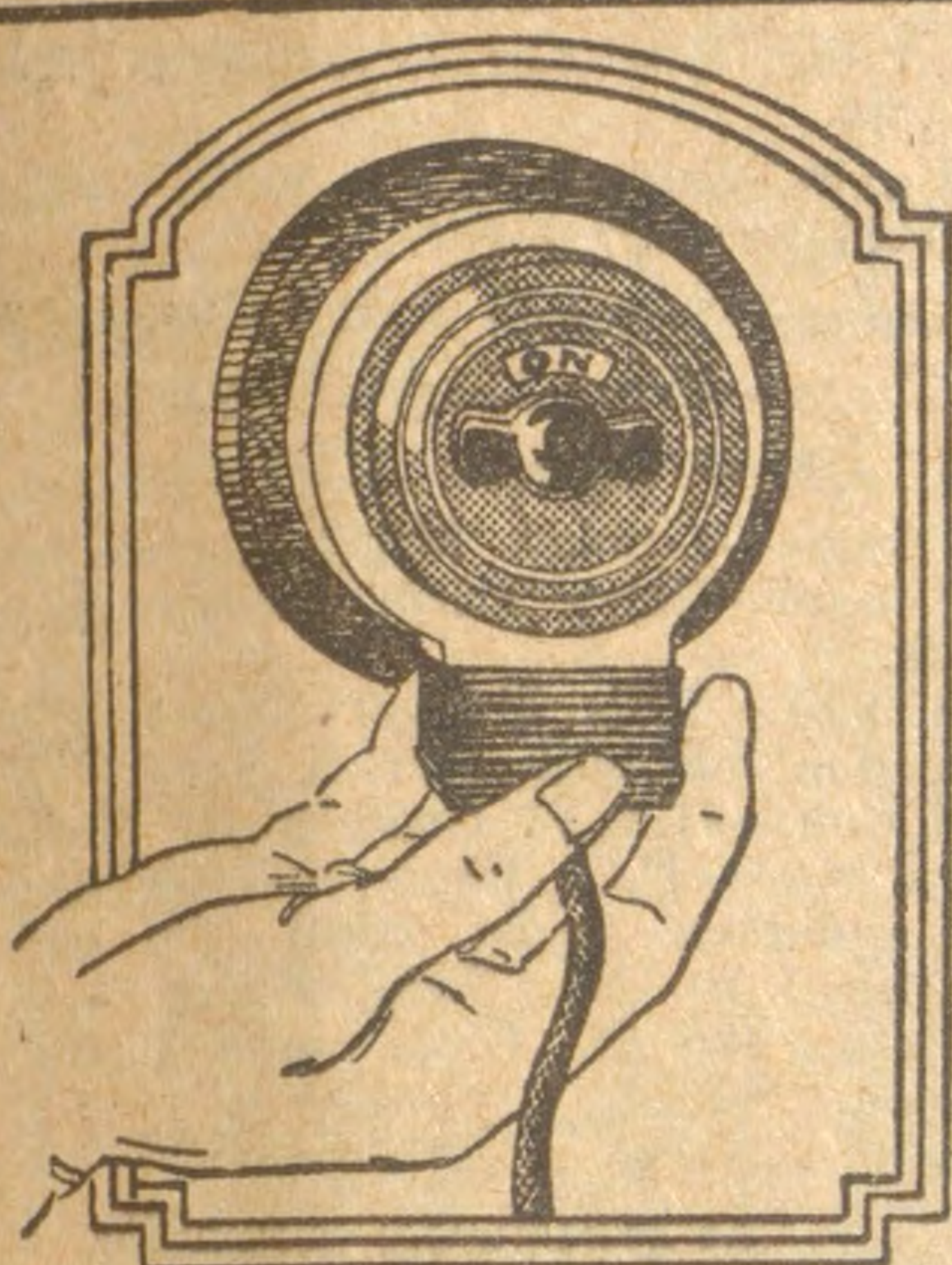
### EARLY EVENING SESSION.

6.15 p.m.—Children's Corner, Uncle Hector  
talks to the little folk.  
6.30 p.m.—Uncle Hubert's half-hour with the  
elder boys and girls.

### EVENING SESSION.

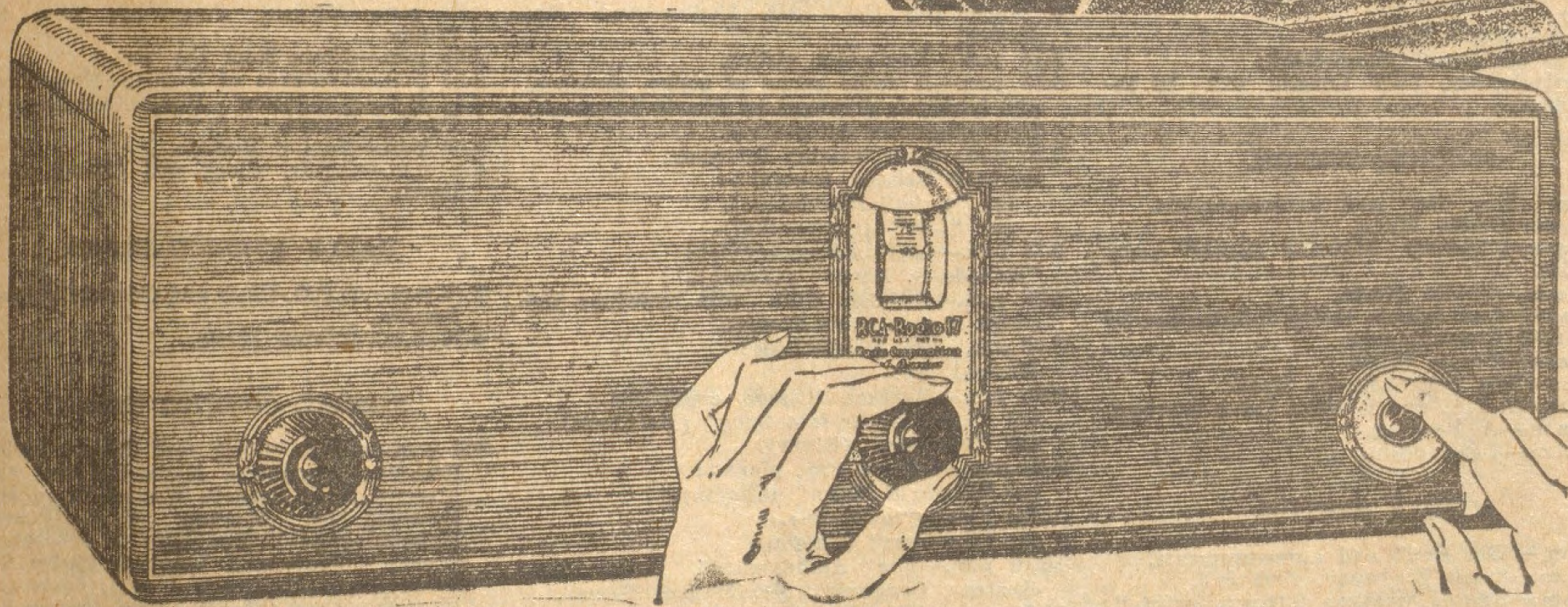
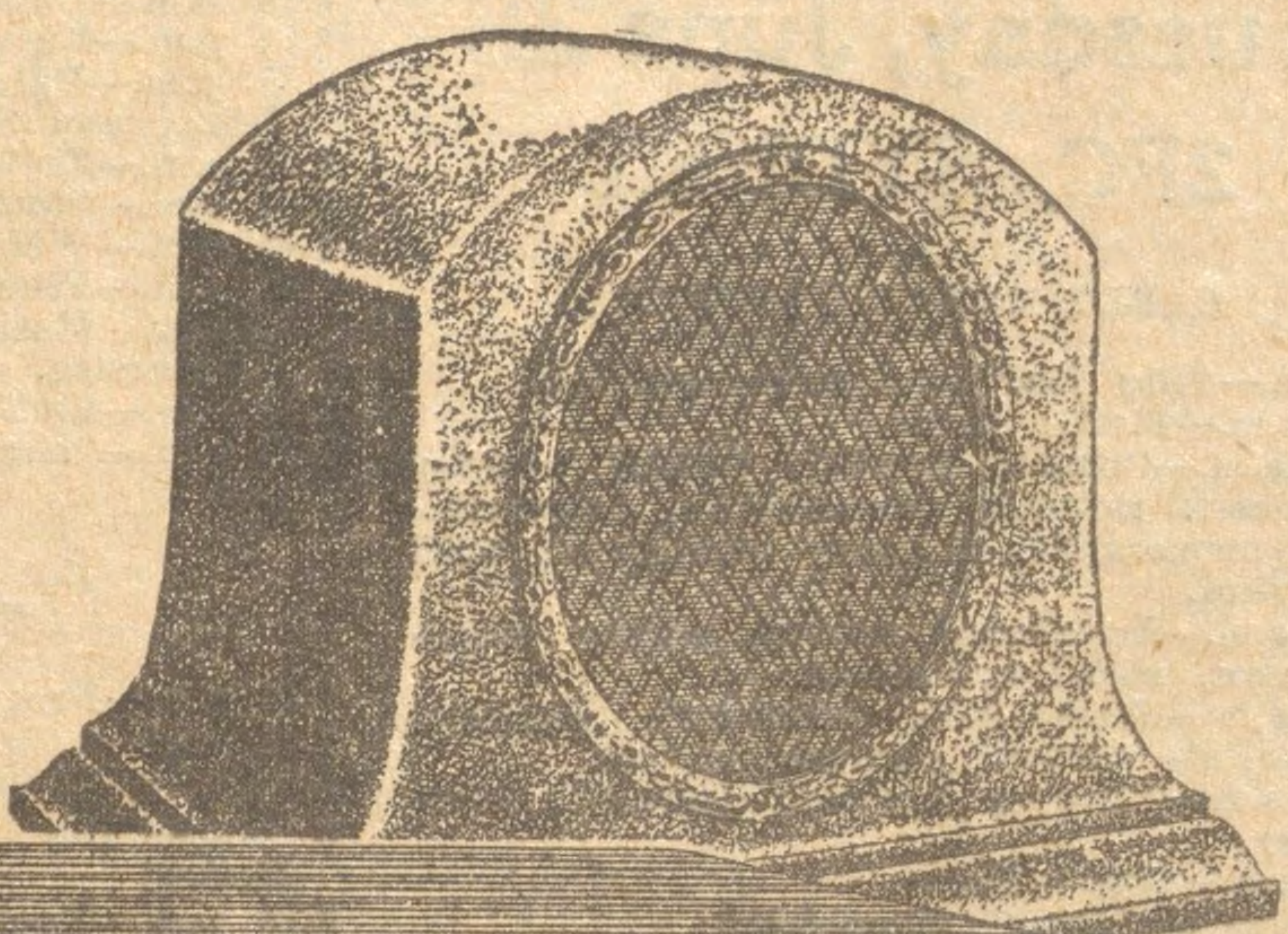
7.15 p.m.—Voice Production, Mr. Stephen E.  
McDonald, (Melbourne).  
7.30 p.m.—Musical selections from the studio.  
7.35 p.m.—Wireless queries, the fourth of a  
series of talks by Audio, who is under special  
engagement of 7ZL.  
7.50 p.m.—"Mercury" special Tasmanian news  
service.  
Railway auction produce sales.  
Weather forecasts.  
Hobart Stock Exchange quotations.  
8 p.m.—G.P.O. Clock chimes the hour.  
8.1 p.m.—The fourth of 7ZL's Camp Fire  
Series Around the Boree Log, Jack Dennett  
gives a party in his old log hut at Signal  
Hill. Four years have turned the rusted key  
and time is on the jog. Still spend this  
fleeting nights with me Around the Boree  
Log.





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Plug in to a light socket or power point with this new R.C.A. Receiver Model 17. No more "dimming" batteries and "fading" reception. Here's Power—unfailing power—Volume—Tremendous amplification of long-distance (all Interstate) reception—clear, rich tone. And all at a cost to operate no more than that of a small sixty watt electric lamp.



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Just plug in. Snap a switch. Turn a single dial. Here is radio that is both simpler and greater. It brings amazing volume to interstate reception. It brings new tone, too—tone that ranges from the deep harmonies of a cathedral organ to the trilling of a flute.

Hear the Model 17 to-day. It is new even in its valves, which are of special A.C. type. At £75 (which, remember, includes the cost of the heavy dull bronze ten guinea R.C.A. Model 100A Loud Speaker), it offers remarkable value. Any of the best radio dealers will gladly demonstrate.

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611 Dean Street, Albury.

Please send by return your illustrated folder, "Music from your Light Socket."

NAME .....  
ADDRESS .....



9.50 p.m.—"Mercury" special interstate news service. Ships within wireless range. Tasmanian district weather report. 9 p.m. weather forecasts. Weather reports from Australian capital cities. Station announcements. Tuesday's programme.  
 10 p.m.—G.P.O. clock chimes the hour.  
 10.1 p.m.—Our Tasmanian good-night thought. Yet every exile, wandering love  
 Our happy careless homes among,  
 May live the best his heart has known,  
 When'er his country songs are sung.  
 The Boree Log (John O'Brien).  
 10.2 p.m.—The King.  
 10.3 p.m.—Close down.

## Tuesday, June 26

### 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.  
 If satisfactory, 5SW London will be re-broadcast.

#### MORNING SESSION.

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

#### MIDDAY SESSION.

12 noon—"Big Ben" and 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 Dance 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.—Jeanette Rooney, contralto.  
 1.34 p.m.—Studio music.  
 1.50 p.m.—Jeanette Rooney, contralto.  
 1.54 p.m.—Studio Music.  
 2 p.m.—"Big Ben." Close down.

#### AFTERNOON SESSION.

3.0 p.m.—"Big Ben" and announcements.  
 3.2 p.m.—A Recital of "Columbia" Records.  
 3.30 p.m.—A Talk by "Delisse."  
 3.45 p.m.—Carlton and Shaw: Musical Act.  
 3.55 p.m.—Mandley Haslam, Tenor: "Heavenly Aida" (Verdi).  
 4.0 p.m.—"Big Ben." Cecil Berry, Violinist: (Pupils of Cyril Monk).  
 4.10 p.m.—Ruby Leslie, Soprano: "I Live For You" (Jack Thompson).  
 4.14 p.m.—Kathleen Roe, Pianoforte Solos: (a) "By Haworth Falls" (Williams).  
 (b) "Hobby Horse" (Leo Livens).

4.21 p.m.—Mandley Haslam, Tenor: "Harlequin" (Wilfrid Sanderson).  
 4.25 p.m.—Cecil Berry, Violinist (pupil of Cyril Monk).  
 4.35 p.m.—Carlton and Shaw: Musical Act.  
 4.45 p.m.—Stock Exchange, third call.  
 4.47 p.m.—Ruby Leslie, Soprano: "June Music" (Lionel Trent).  
 4.50 p.m.—Kathleen Roe, Pianoforte Solos: "Prelude and Fugue in E Flat" (Bach).  
 5.0 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.—From the Hotel Australia: Dinner Music by the Hotel Australia Orchestra.  
 7.15 p.m.—Studio Music.  
 7.30 p.m.—"Evening News." Late News Service.

#### NIGHT SESSION.

7.40 p.m.—Programme announcements.  
 7.45 p.m.—Erik Langker: Talk on "Etchings and Engravings."  
 8 p.m.—"Big Ben." Mr. Medley and Mr. Motley.  
 8.10 p.m.—To-night's visitor.  
 8.25 p.m.—A radio revue of songs, sketches, and burlesque, arranged by Charles Lawrence, the well-known entertainer.  
 9.10 p.m.—Late weather forecast. Barbara Briscoe, contralto: (a) "Quiet" (Sanderson).  
 (b) "Life" (Blumenthal).  
 9.18 p.m.—Carlton Fay, pianist: "Ballade G. Minor" (Chopin).  
 9.28 p.m.—Brunton Gibb will continue the series of Con Drew Stories.  
 9.40 p.m.—The Neapolitans: Musical Act.  
 9.50 p.m.—Barbara Briscoe, contralto: (a) "Sing, Break into Song" (Mallinson).  
 (b) "Pleading" (Elgar).  
 9.58 p.m.—Carlton Fay, pianist: (a) "Etude E Major" (Chopin).  
 (b) "Valse" (Chopin).  
 (c) "Berceuse" (Chopin).  
 10.10 p.m.—The Ambassadors' Dance Orchestra. Conductor, Mr. Manuel Hyman.  
 10.15 p.m.—"The Neapolitans": Musical Act.  
 10.25 p.m.—Late weather forecast.  
 10.26 p.m.—The Ambassadors' Dance Orchestra, interspersed with musical items from the Studio.  
 10.57 p.m.—Late news. To-morrow's programme.  
 11 p.m.—"Big Ben." The Ambassadors' Dance Orchestra, in popular dance numbers until 11.45 p.m.  
 11.45 p.m.—"Big Ben." National Anthem.  
 Close down.

## 2BL, SYDNEY

TUESDAY, 26th JUNE, 1928.

#### EARLY MORNING SESSION.

8.0 a.m. to 9.0 a.m.

#### MORNING SESSION.

10.30 a.m.—G.P.O. Clock and Chimes; Musical Programme from the Studio.  
 11.0 a.m.—G.P.O. Clock and Chimes; Talk on "Foot Troubles," by Miss Jean Gordon.

12.0 noon.—G.P.O. Clock and Chimes; Special Ocean Forecast and Weather Report.  
 12.3 p.m.—Musical Programme from the Studio.  
 12.12 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; "Wandering midst coral isles and tropic seas," by Mr. Basil Kirke.  
 2.0 p.m.—G.P.O. Clock and Chimes; Close Down.

#### AFTERNOON SESSION.

Racing Information broadcast immediately after each race by courtesy of the "Sun."  
 3.0 p.m.—G.P.O. Clock and Chimes; News from the "Sun."  
 3.15 p.m.—Civil Service Stores Trio: Direction, Miss De Courcy Bremer.  
 3.30 p.m.—G.P.O. Clock and Chimes; News from the "Sun."  
 3.40 p.m.—Pianoforte Recital from the Studio.  
 3.50 p.m.—News from the "Sun."  
 4.0 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 the Studio.  
 4.50 p.m.—News from the "Sun."  
 4.55 p.m.—Features of Evening's Programme.  
 4.57 p.m.—Producers' Distributing Society's Poultry Report.  
 4.59 p.m.—Racing Resume.  
 5.0 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.

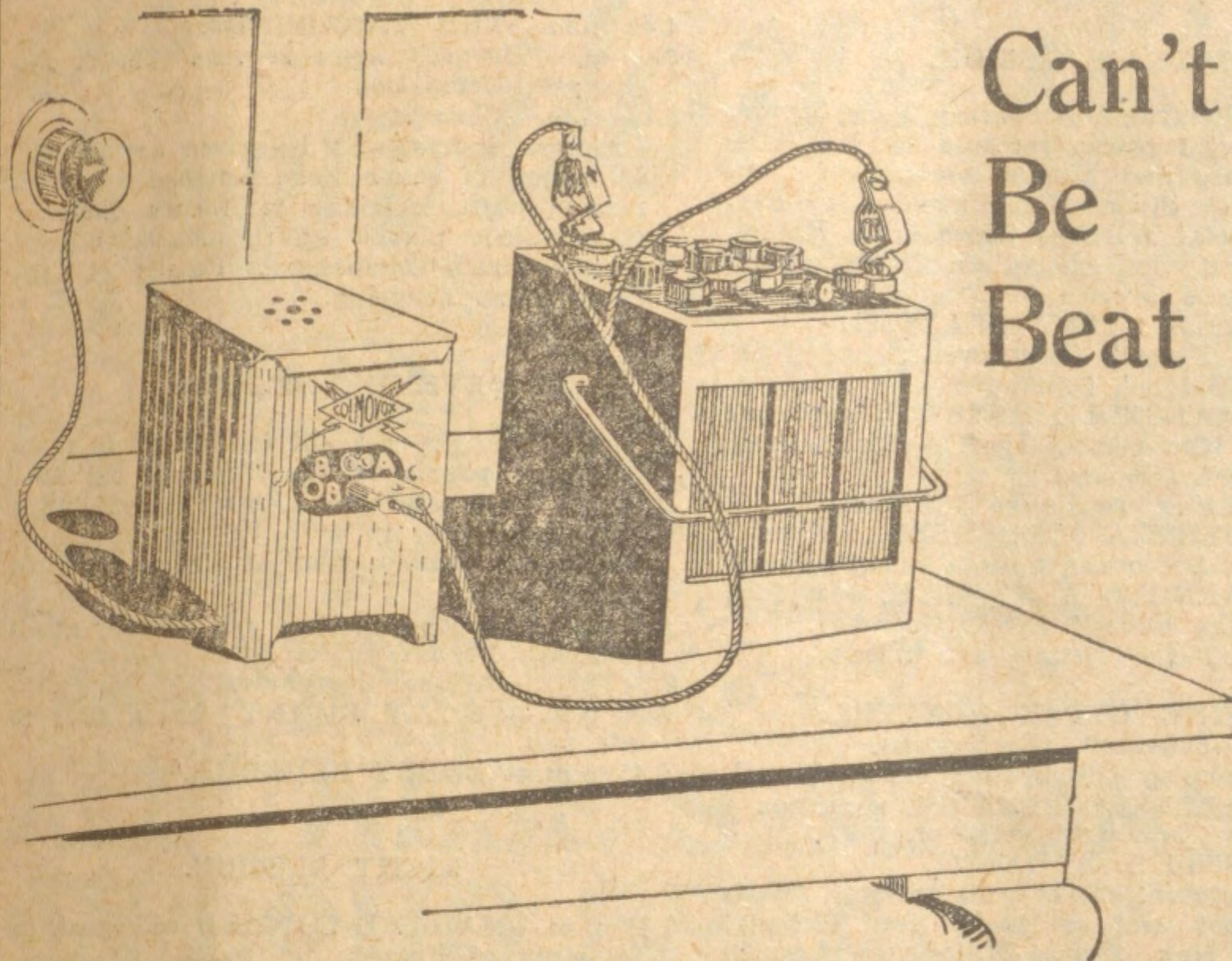
#### SPECIAL COUNTRY SESSION.

7.0 p.m.—G.P.O. Clock and Chimes; Racing Resume; Australian Mercantile Land and Finance Co's Report; Weather Report and Forecast by courtesy of Government Meteorologist; Producers' Distributing Society's Fruit and Vegetable Market Report; Stock Exchange Report; Grain and Fodder Report ("Sun"); Dairy Produce Report ("Sun"); N.R.M.A. Report.  
 7.15 p.m.—News from the "Sun."  
 7.30 p.m.—Talk by a member of the St. John Ambulance Association, on "First Aid."  
 8.0 p.m.—G.P.O. Clock and Chimes; Broadcasters' Topical Chorus.  
 8.3 p.m.—Mr. Stanley R. Catlett (Tenor).  
 8.10 p.m.—Broadcasters' Instrumental Trio.  
 8.17 p.m.—Miss Leonore Gotsch (Soprano).  
 8.24 p.m.—Tooth's Brewery Band.  
 8.44 p.m.—Win and Windle (English Entertainers).  
 8.54 p.m.—Miss Nellie Ravens (Contralto).  
 9.1 p.m.—Weather Report and Forecast, by courtesy of Mr. C. J. Mares, Government Meteorologist.  
 9.2 p.m.—Movie Talk by Miss Iris Norton.  
 9.12 p.m.—Broadcasters' Instrumental Trio.  
 9.19 p.m.—Mr. Stanley R. Catlett.  
 9.26 p.m.—Tooth's Brewery Band.  
 9.46 p.m.—Win and Windle.  
 9.56 p.m.—Miss Nellie Ravens.  
 10.3 p.m.—Mr. G. Vern Barnett (Piano Solos).  
 10.10 p.m.—Miss Leonore Gotsch.  
 10.17 p.m.—Resume of Following Day's Programme.  
 10.20 p.m.—The Wentworth Cafe Orchestra, under the direction of Mr. Jimmy Elkins, broadcast from the Wentworth.  
 During intervals between dances "Sun" News will be broadcast.  
 11.30 p.m.—G.P.O. Clock and Chimes; National Anthem.



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2 Brachstats .....	0	9	6
3 Valve Sockets Ben- jamin .....	0	13	6
Or Valve Sockets, Buffalo	0	3	9
1 Philips' Transformer ..	1	7	6
Or A.W.A. Transformer .	0	18	0
1 A.W.A. Super Audio Choke .....	0	18	0
1 Midget Condenser, Ad- vance .....	0	6	6
1 Radiokes R.F. Choke ..	0	8	6
1 .00025 Grid Condenser and 5 meg. Leak ....	0	3	0
1 .006 Condenser, Igranic	0	2	6
1 Electrad Filament Switch .....	0	2	0
1 S.C. Jack .....	0	1	7
1 4.5 C. Battery .....	0	2	9
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## 2GB, SYDNEY

TUESDAY, 26th JUNE, 1928.

## MORNING SESSION.

- 10 a.m.—Music.  
 10.10 a.m.—Happiness Talk.  
 10.20 a.m.—Music.  
 10.30 a.m.—Women's Session.  
 11.15 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.  
 8 p.m.—Opening Chorus.  
 8.2 p.m.—2GB Instrumental Trio.  
 8.15 p.m.—Address.  
 8.30 p.m.—Songs by Miss Nance Marley.  
 8.37 p.m.—Corporal Williams Entertainer.  
 8.52 p.m.—Violin Solos by Mr. Dan Scully.  
 9 p.m.—Talk.  
 9.20 p.m.—Songs by Miss Nance Marley.  
 9.27 p.m.—2GB Instrumental Trio.  
 9.40 p.m.—Humorous Reading.  
 9.50 p.m.—Cello Solos by Miss Marjorie Kennedy.  
 10 p.m.—Close down.

## 2 UW, SYDNEY

TUESDAY, 26th JUNE, 1928.

## EVENING SESSION.

- 7 p.m.—Studio items.  
 7.10 p.m.—Where to go session.  
 7.15 p.m.—Dinner music.  
 7.45 p.m.—Vocal and instrumental items.  
 8.10 p.m.—News, mails and shipping.  
 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.

## 3LO, MELBOURNE.

TUESDAY, 26th JUNE, 1928.

## EARLY MORNING SESSION.

- 7.15 a.m.—"Herald" Breakfast Hour.  
 7.20 a.m.—Physical Culture Exercises (to music).  
 7.27 a.m.—Morning Melodies.  
 7.33 a.m.—WEATHER FORECAST for all States.  
 7.40 a.m.—NEWS.  
 8 a.m.—Melbourne Observatory Time Signal.  
 8.1 a.m.—Express train information.  
 8.2 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.

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

- 11.5 a.m.—MISS NOBLE: Gas Cooking: "Milk Soups."  
 11.20 a.m.—Musical interlude.  
 11.25 a.m.—MRS. DOROTHY SILK: "Homecrafts."  
 11.40 a.m.—Musical interlude.  
 11.45 a.m.—"AU FAIT...": "The Well Dressed Woman."

## 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 cables. "Argus" news service.  
 12.20 p.m.—THE GYPSY PLAYERS: "Adieu au Piano" (Beethoven). "Die chre Gottes" (Beethoven).  
 12.30 p.m.—MARCELLE BERARDI, soprano: "Lo, Hear the Gentle Lark" (Bishop). "Echo Song" (Bishop).  
 12.37 p.m.—Stock Exchange information.  
 12.40 p.m.—BERTHA JORGENSEN, violin: "Movement, Beethoven Sonata" (Beethoven).  
 12.47 p.m.—ARNOLD ASHWORTH, baritone: "Song of the Rover" (Alex. Georges). "Thank God the Drums are Silent" (T. Lawton).  
 12.54 p.m.—THE GYPSY PLAYERS: "Quartette-Scherzo" (Beethoven).  
 1 p.m.—Melbourne Observatory Time Signal.  
 1.1 p.m.—MARCELLE BERARDI, soprano: "When Love is Kind" (Moore). "The Blackbird Song" (Scott).  
 1.8 p.m.—Meteorological information. Weather forecast and rainfall for Victoria, Tasmania, New South Wales and South Australia. River reports. Ocean forecasts.  
 1.15 p.m.—THE GYPSY PLAYERS: "Trio" (Beethoven).  
 1.25 p.m.—HELGA BRENNECKE, 'cello: "The Old Refrain" (Kreisler). "Lullaby" (Cyril Scott).  
 1.32 p.m.—ARNOLD ASHWORTH, baritone: "Route Marchin'" (Stock). "In the Silence of the Night" (Rachmaninoff).  
 1.39 p.m.—THE GYPSY PLAYERS: "Minuetto" (Beethoven).  
 1.45 p.m.—Close down.

## AFTERNOON SESSION.

- 2.15 p.m.—THE VAGABONDS: "The Song is Ended" (Berlin). "Together We Two" (Berlin). "O-oh, Maybe It's You" (Berlin).  
 2.24 p.m.—MARJORIE LAWRENCE, soprano: "Robin, Robin" (Spross). "April is a Lady" (Phillips).  
 2.31 p.m.—THE VAGABONDS: "Breeze" (Hanley). "If I could Look into Your Eyes" (Goodman). "Maybe I'll Baby You" (Buck).  
 2.40 p.m.—VICTOR BAXTOR, tenor: "Harlequin." "String of Pearls."  
 2.47 p.m.—THE VAGABONDS: "I Know that You Know" (Youmans). "My Blue Ridge Mountain Home" (Robinson). "Temperamental Baby" (Friend).  
 2.56 p.m.—J. ALEXANDER BROWNE, baritone: "Bedouin Love Song" (Pinsuti). "The Pixie Piper Man" (Elliott).  
 3 p.m.—THE VAGABONDS: Request items.  
 3.12 p.m.—RUPERT HAZELL AND ELSIE DAY: "Harmonylarity."  
 3.25 p.m.—THE VAGABONDS.  
 3.34 p.m.—GERTRUDE HUTTON, contralto: "A Necklace of Love" (Nevin). "Heatherland" (Diamyne).  
 3.41 p.m.—THE VAGABONDS.  
 3.50 p.m.—MARJORIE LAWRENCE, soprano: "Love is a Merry Carpenter" (Hill). "Nothin' to Do" (Crist).  
 3.57 p.m.—THE VAGABONDS.  
 4.6 p.m.—VICTOR BAXTER, tenor: "Les Mameaux" (Faure).

- 4.13 p.m.—THE VAGABONDS.  
 4.22 p.m.—J. ALEXANDER BROWNE, baritone: "My Own Fireside" (Carey). "To-morrow" (Kell).  
 4.29 p.m.—THE VAGABONDS.  
 4.38 p.m.—GERTRUDE HUTTON, contralto: "Ernisthore" (Nutting). "My Prayer" (Squire).  
 4.45 p.m.—THE VAGABONDS.  
 5 p.m.—"Herald" news service. Stock Exchange information.  
 5.15 p.m.—Close down.

Progress scores will be given during the afternoon of the billiard match, Frank Farrara (South Africa) v. Walter Lindrum (Australia), played at the Alcock Billiard Room, South Melbourne. Results of the Craigieburn coursing.

## EVENING SESSION.

And if you are not old enough yet to enjoy Kipling's poems of the Oak and the Ash, Puck's Song and the Little Folk on Pook's Hill—well, join in with us here in singing the songs which Gladys writes down so neatly.

- 6 p.m.—Answers to letters and birthday greetings by "BILLY BUNNY."  
 6.20 p.m.—Musical interlude.  
 6.25 p.m.—"BILLY BUNNY" has a story to tell you.  
 6.45 p.m.—"BOBBY BLUEGUM."

## NIGHT SESSION.

- 7.15 p.m.—MADAME SOWARD will speak to Students of French.  
 7.30 p.m.—Under the auspices of the UNIVERSITY OF MELBOURNE EXTENSION BOARD, F. SINCLAIRE, M.A., Lecturer in English Literature to the University, will speak on "Henrick Ibsen."  
 7.45 p.m.—OUT OF THE PAST.  
 7.46 p.m.—A. W. JACKSON will speak on "Golf."  
 8 p.m.—A MAKER OF HISTORY.  
 8.1 p.m.—KINGSVILLE AND YARRAVILLE BAND: "Minstrel Melodies."  
 8.8 p.m.—MARJORIE LAWRENCE, soprano: "Plantation Melodies."  
 8.15 p.m.—R. J. FRENCH, banjoist: "Plantation Airs."  
 8.22 p.m.—KINGSVILLE AND YARRAVILLE BAND: "In Coonland."  
 ONE ACT PLAY.  
 8.30 p.m.—VICTORIAN RAILWAYS INSTITUTE DRAMATIC SOCIETY (under direction of Winifred Moverley).

## "EMILY'S EXCUSE."

By A. J. Talbot.

Henry Baxter, T. Bernard Lamble.  
 Ellen Baxter (his wife), Lola Martin.  
 Jane (the cook), Ivy Broadley.  
 Emily (the parlormaid), Winifred Moverley.  
 Scene: The Proprietress's Apartment in the Belle Vue Boarding House.

- 8.48 p.m.—Announcements.  
 STUDIO CONCERT CONTINUED.  
 8.50 p.m.—KINGSVILLE AND YARRAVILLE BAND: March, "Sons of the Wild." March, "Ravenswood."  
 8.57 p.m.—MARJORIE LAWRENCE, soprano: "To Sing Awhile" (Drummond). "Danny Boy" (Weatherley).  
 9.4 p.m.—R. J. FRENCH, banjoist: "Popular Airs."  
 9.11 p.m.—KINGSVILLE AND YARRAVILLE BAND: Selection, "Poetic Fancies."  
 9.20 p.m.—TELEPATHY TEST.  
 9.27 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.



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BICOQUET (a St. Malo ship chandler), JOHN DONOVAN.  
DON TROCADERO (Spanish Governor of Island of Estrella), HAROLD BLADEN.  
KESTRAL (skipper of a Yankee Privateer), EDGAR MIDLAND.  
BOUILLABASSE (an old smuggler), ALAN BELL.  
PETITE PIERRE (fisher lad of St. Malo), JOLLY.  
YVONNE (niece of Bicoquet), FLORENCE BLITZ.  
CHOPINETTE (wife of Bouillabasse), JEAN KELLY.  
MALAGUENA (niece of Don Trocadero), IVY CARLISLE.

## NEWS SESSION.

10.45 p.m.—"Argus" news service. Meteorological information. British official wireless news from Rugby. Announcements. Shipping information.  
10.57 p.m.—THE VAGABONDS:  
"Hot and Heavy" (Hooper).  
11 p.m.—OUR GREAT THOUGHT.  
11.1 p.m.—THE VAGABONDS.  
11.15 p.m.—Final scores of to-day's session of the billiard match, Frank Ferrara versus Walter Lindrum, played at the Alcock Billiard Room, South Melbourne.  
11.16 p.m.—THE VAGABONDS.  
11.40 p.m.—"GOD SAVE THE KING."

## 3AR, MELBOURNE

TUESDAY, 26th JUNE, 1928.

## EARLY MORNING SESSION.

9.0 a.m. to 10.0 a.m.

## MORNING MUSICAL SESSION.

10.0 a.m.—Studio Orchestra.  
10.15 a.m.—Jean Lewis, Contralto:  
"Four by the Clock" (Mallison).  
"Ships That Pass in the Night" (Stephens).  
10.22 a.m.—Herbert Pettifer, Violin:  
"Dudziarz" (Wieniawski).  
10.26 a.m.—Studio Orchestra.  
10.37 a.m.—Tom Semple, Tenor:  
"Faery Song" (Boughton).  
"The Devon Maid" (Bridge).  
10.44 a.m.—The Victoria Trio:  
Selected.  
10.54 a.m.—Jean Lewis, Contralto:  
"Before the Dawn" (Lang).  
"Salaam" (Lang).  
11.1 a.m.—Studio Orchestra.  
11.21 a.m.—Tom Semple, Tenor:  
"The Knight's Song" (Shaw).  
"O Flower of all the World" (Finden).  
11.28 a.m.—Herbert Pettifer and Louise McNicol.  
"Duet for Two Violins."  
11.33 a.m.—The Victoria String Quartette:  
Selected.  
11.45 a.m.—Ralph Thompson, Baritone:  
"An Old English Love Song" (Allitsen).  
"Youth" (Allitsen).  
11.52 a.m.—Studio Orchestra.  
12.7 p.m.—Ralph Thompson, Baritone:  
"A Farewell" (Liddles).  
"Bois Epais" (Lully).  
12.15 p.m.—Studio Orchestra.  
12.28 p.m.—Newmarket Special Report, by courtesy of Messrs. John McNamara and Co.  
12.30 p.m.—Close Down.

## EVENING SESSION.

5.0 p.m.—Trevor May's Australians;  
5.23 p.m.—Winifred Greer, Contralto:  
"Mountain Lovers" (Squire).  
"Thank God for a Garden" (Del Riego).  
5.30 p.m.—The Gipsy Players;  
"Mendelssohn Melodies."  
"Quartette" (Mozart).

5.51 p.m.—Helga Brennecke, Alto:  
"Movement from Sonata" (Beethoven).  
5.59 p.m.—Winifred Greer, Contralto:  
"The Arrow and the Song" (Balfe).  
"My Dear Soul" (Sanderson).  
6.6 p.m.—Trevor May's Australians.  
6.30 p.m.—Milton Chick, Baritone:  
"Fair House of Joy" (Quilter).  
"Go, Lovely Rose" (Quilter).  
6.37 p.m.—The Gipsy Players:  
"A Summer Night" (Mendelssohn).  
"Canzonetta" (Mendelssohn).  
6.52 p.m.—Bessie Gaunson, Violin:  
"Walthers Preisleid" (Wagner).  
7.0 p.m.—Milton Chick, Baritone:  
"Sombre Woods" (Lully).  
"Love's Old Sweet Song" (Molloy).  
7.7 p.m.—The Gipsy Players:  
"By the Lake of Geneva," Part I. (Bendel).  
"Egyptien Impressions" (Crist).  
7.30 p.m.—Trevor May's Australians.

## NEWS AND MARKET REPORTS.

8.0 p.m.—MacNamara's Stock Report; Official Report of Newmarket Stock Sales, by the Associated Stock and Station Agents, Bourke Street, Melbourne.  
8.10 p.m.—"Herald" News Service; Weather Synopsis; Shipping Movements.  
8.12 p.m.—Stock Exchange Information.  
8.17 p.m.—Fish Market Reports, by J. R. Borrett, Ltd.; Rabbit Prices.  
8.19 p.m.—River Reports.  
8.21 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.

8.30 p.m.—The Ramblers.  
9.0 p.m.—Alan Adcock, Entertainer:  
"Songs at the Piano."  
9.8 p.m.—The Ramblers.  
9.30 p.m.—Mae Seaton, Soubrette:  
"You're so Easy to Remember" (Woods).  
"Forgive Me" (Ager).  
9.37 p.m.—The Ramblers.  
10.0 p.m.—A. M. Ballard, Talk on:  
"Esperanto."  
10.10 p.m.—Alan Adcock, Entertainer:  
"Songs at the Piano."  
10.18 p.m.—The Ramblers.  
10.30 p.m.—Mae Seaton, Soubrette:  
"Worryin'" (Fairman).  
"Broken Hearted" (Henderson).  
10.37 p.m.—The Ramblers.  
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, "Song," by Victor J. Daley.  
11.0 p.m.—God Save the King.

## 4QG, BRISBANE.

TUESDAY, 26th JUNE, 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.—Lecturette: A talk on "Photography" by Mr. F. L. South (Manager, Kodak Ltd.).

## NIGHT SESSION.

8 p.m.—A programme arranged by Mr. Eric Hayne.  
"Sonata in D for Violin and Piano" (Corelli).  
Piano, Miss Audrey Anderson, P.D.S.C.  
violin: Mr. Eric Hayne.  
8.10 p.m.—Baritone solos:  
(a) "The Scented Dusk" (Maurice Nugent);  
(b) "I Claim You Mine" (Florence Aylward).  
Mr. Les. Edye.  
8.17 p.m.—Piano solo:  
"Allegro Maestro" from "Sonata in B-Minor," Op. 58 (Chopin).  
Miss Audrey Anderson.  
8.26 p.m.—Violin solos:  
(a) "An Old Fairy Tale" (Gabriel-Marie);  
(b) "March of the Toy Soldiers" (Kreisler);  
(c) "Taumerei" (Schumann).  
Mr. Eric Hayne.  
Baritone solo:  
"The Star-Flower Tree" (Amy Woodford-Finden).  
Mr. Les. Edye.  
8.37 p.m.—Piano solos:  
(a) "The King's Hunt" (John Bull).  
(b) "Ecossaise in E-Flat" (Beethoven).  
(c) "Rondo a Capriccio" (Beethoven)—  
Rage over the Lost Penny.  
Miss Audrey Anderson.  
Baritone solo:  
"The Call" (Hubert Oliver).  
Mr. Les. Edye.  
8.52 p.m.—Violin solo:  
"Moderato" from "Concerto in A-Minor" (Rode).  
Mr. Eric Hayne.  
9 p.m.—Metropolitan weather forecast.  
9.1 p.m.—From "The White House"—  
A programme arranged by Messrs. Olsen and Goodchap.  
Octette:  
"Avening and Bright" (A. Vense).  
The Bohemians.  
Mezzo-soprano solos:  
(a) "Love's Rhapsody" (D'Hardelot).  
(b) "You're Just as Pretty as the Day" (Clarke).  
Miss Maria Dullely.  
Tenor solo:  
"A Little Love a Little Kiss" (Silesu).  
Mr. Geo. Williamson.  
Baritone solo:  
"The Ne'er Da Well" (J. W. Tait).  
Mr. E. Harper.  
Octette:  
"Old Farmer Buck" (Williams).  
The Bohemians.  
Contralto solo:  
"The String of Pearls" (Phillips).  
Miss Nina Dullely.  
Bass solo:  
"True Till Death" (Scott Gatty).  
Mr. J. P. Cornwell.  
Musical monologue:  
"Snowflakes" (Melb. Spurr).  
Mr. Tom Muller.  
Tenor solo:  
"My Gal Sal" (Paul Dresser).  
Mr. Ray Bruce.  
Octette:  
"Laughing" (Abt).  
The Bohemians.



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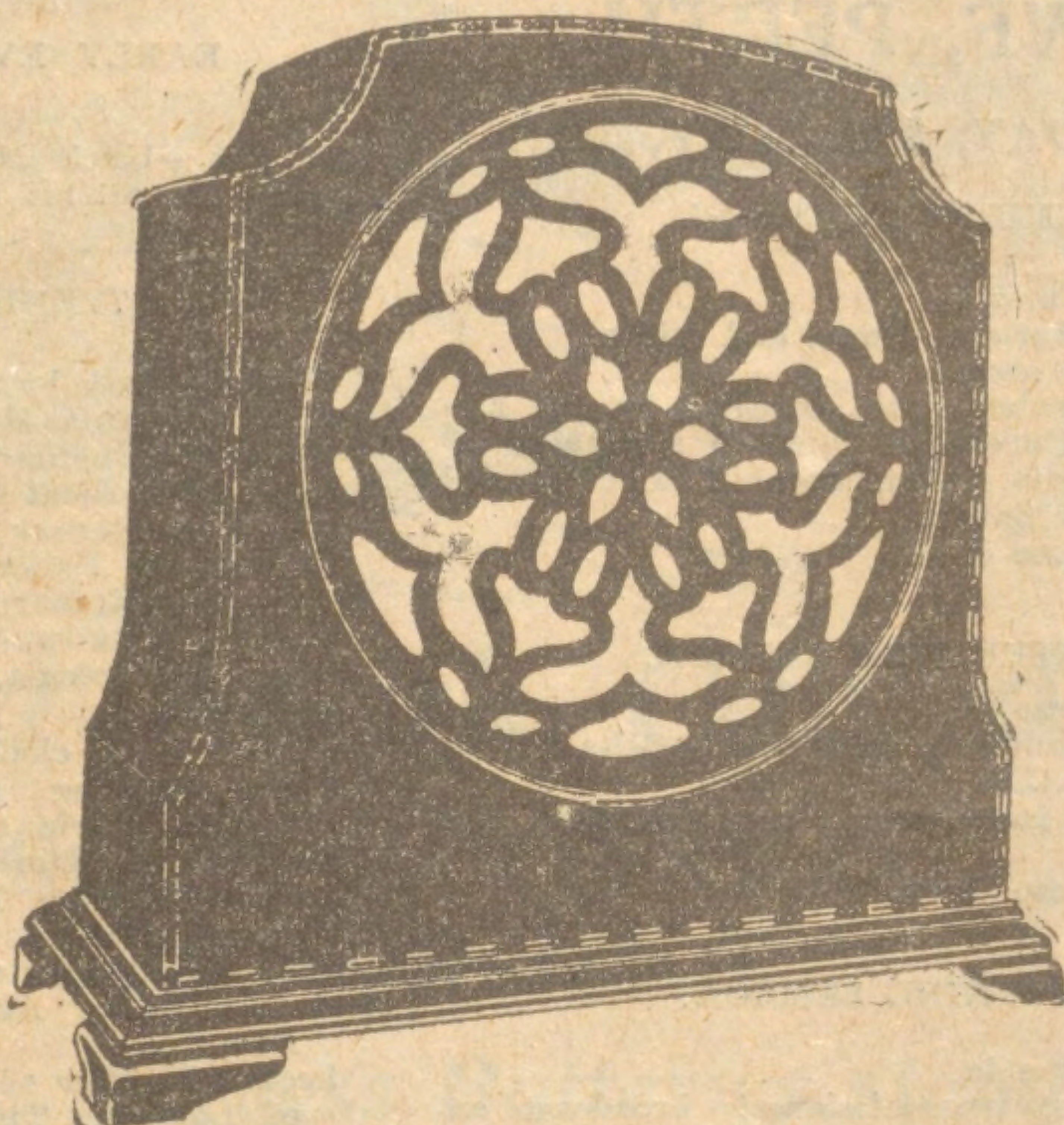
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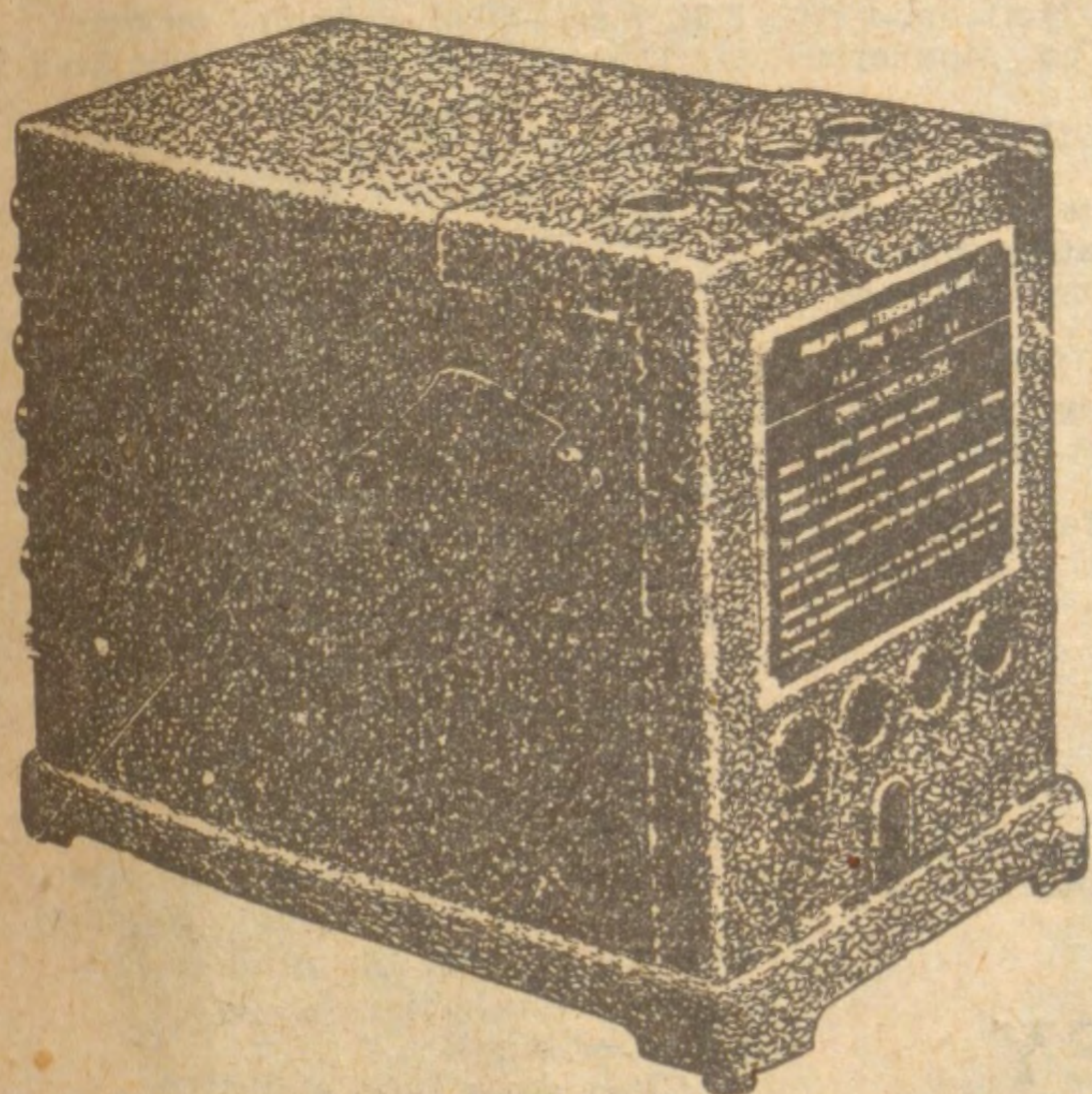
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## Contralto solo:

"At Dawning" (Cadman).  
Miss Nina Duley.

## Baritone solo:

"The Young loyalist" (Adams).  
Mr. F. Crane.

## Octette:

"Down in the Depths" (Linders).  
The Bohemians.

## Mezzo-soprano solo:

"Perhaps" (Forster).  
Miss Marie Duley.

## Octette:

"But it is so" (Scott Gatty).  
The Bohemians.

10 p.m.—"The Daily Mail" news.

Weather news.

Close down.

## 6WF, PERTH.

TUESDAY, 26th JUNE, 1928.

## MIDDAY SESSION.

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

## AFTERNOON SESSION.

3.30 p.m.—Tune in.  
3.35 p.m.—Pianoforte selections by Miss 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 announcement.  
Weather report and forecast.  
10.30 p.m.—Close down.

## 104.5 METRE TRANSMISSION.

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

## 7ZL, HOBART

TUESDAY, 26th JUNE, 1928.

## MORNING SESSION.

11 a.m. to 12 noon.

## MATINEE SESSION.

3 p.m.—G.P.O. clock chimes the hour.  
3.1 p.m.—Musical selections.

3.5 p.m.—Weather information. Items of interest. Announcements.

3.15 p.m.—7ZL Studio Trio:  
Selection, "Sunny" (Kern).

3.25 p.m.—Miss Gertrude Gibson, soprano:  
"The Mocking Bird" (Behrend).

3.28 p.m.—7ZL Studio Trio:  
Valse, "Allonettes" (Drigo).

3.33 p.m.—Tom Foy, comedian:  
Much obliged to me (Bateman).  
In trouble again (Foy).

3.41 p.m.—7ZL Studio Trio:  
Suite, Summer Days (Coates).

3.46 p.m.—Peter Dawson, baritone:  
Invictus (Kern).  
Friendship (Harvey).

3.54 p.m.—7ZL Studio Trio:  
Fox trot, Camille (Henderson).

3.59 p.m.—Merry Andrew, comedian:  
A night out (Penrose).

What shall I say to the wife (Penrose).

4.7 p.m.—7ZL Studio Trio:  
March, Gladiators (Eilenberg).

4.15 p.m.—Educational talk.

4.30 p.m.—Close down.

## EARLY EVENING SESSION.

6.15 p.m.—Uncle Mac in music, song, and story for all his nephews and nieces.

## 7VENING SESSION.

7.15 p.m.—Talk by Mr. C. H. Sims, The Come to Tasmania Movement:

Subject, "Photography in Tasmania."

7.30 p.m.—Musical selections.

7.35 p.m.—Literary lapses and library lists by Mr. W. E. Fuller.

7.50 p.m.—"Mercury" special Tasmanian news service. Railway auction produce sales. Weather forecast. Hobart Stock Exchange quotations.

8 p.m.—G.P.O. clock chimes the hour.

8.1 p.m.—During this session Miss Edna Cameron (lyric soprano) and Mr. George Harrison (humorist) will entertain.

Broadcast from Prince of Wales Theatre, Hobart, selections by Prince of Wales Orchestra. Conductor, Mr. E. J. McCann.

9.15 p.m.—One Act Play. "The Monkey's Paw."

Scene: Interior of a cottage on the outskirts of London. Time, present.

9.50 p.m.—"Mercury" special interstate news service. Tasmanian district weather reports. Station announcements. Wednesday's programme.

10 p.m.—G.P.O. clock chimes the hour.

10.1 p.m.—Our Tasmanian good-night thought:  
Time was—is past thou caust not it recall,

Time present is the only time for thee.

(Anon.).

10.2 p.m.—The King.

10.3 p.m.—Close down.

## Wednes., June 27

## 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" summary.

10.30 a.m.—Studio Music.

10.35 a.m.—A Reading.

10.45 a.m.—Studio Music.

11 a.m.—"Big Ben." Studio Music.

11.5 a.m.—A.P.A. and Reuter's Cable Services.

11.15 a.m.—A talk on Home Cooking and Recipes by Miss Ruth Furst.

11.30 a.m.—Close down.

## MIDDAY SESSION.

12 noon—"Big Ben" and announcements.

12.2 p.m.—Stock Exchange, first call.

12.3 p.m.—Official weather forecast, rainfall.

12.5 p.m.—Studio Music.

12.10 p.m.—Summary of "Sydney Morning Herald" news service.

12.15 p.m.—Rugby Wireless News.

12.20 p.m.—Studio Music and Dance Items.

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.

1.40 p.m.—Barbara Briscoe, contralto:

(a) "Down the Burn" (Old Scotch).

(b) "The Sweetest Flower" (Hawley).

1.48 p.m.—Studio Music.

2 p.m.—"Big Ben." Close down.

## AFTERNOON SESSION.

3 p.m.—"Big Ben" and announcements.

3.3 p.m.—A recital of "Edison" records.

3.30 p.m.—A talk by "Delisse."

3.45 p.m.—Rene Rich, violinist:

(a) "Hejre Kati" (Hubay).

(b) "Medley"—

(1) "Red Robin" (Woods).

(2) "Song of Hawaii" (Corbell).

3.53 p.m.—Gladys Aubin, soprano:

"The Hills of Heaven" (Hermann Lohr).

3.56 p.m.—Nea Hallett, soubrette:

Popular numbers.

4.4 p.m.—Marjorie Mayne, mezzo:

"Obstination" (H de Fontenailles).

4.6 p.m.—Rene Rich, violinist:

(a) "Gipsy Dance" (Sarasate).

(b) "Coming Home" (Willeby).

4.16 p.m.—Gladys Aubin, soprano:

"Town and Country" (Haydn Wood).

4.20 p.m.—From the Ambassadors:

The Ambassadors' Dance Orchestra, conducted by Manuel Hyman.

4.30 p.m.—Daisy Sweet, contralto:

"My Rose" (Langtry).

4.34 p.m.—Nea Hallett, soubrette:

4.40 p.m.—Marjorie Mayne, mezzo:

"Heart of Gold" (Lang).

4.45 p.m.—Stock Exchange, third call.

4.47 p.m.—Daisy Sweet, contralto:

"Out of the Darkness" (Hardelet).

4.50 p.m.—From the Ambassadors:

Dance 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.

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.

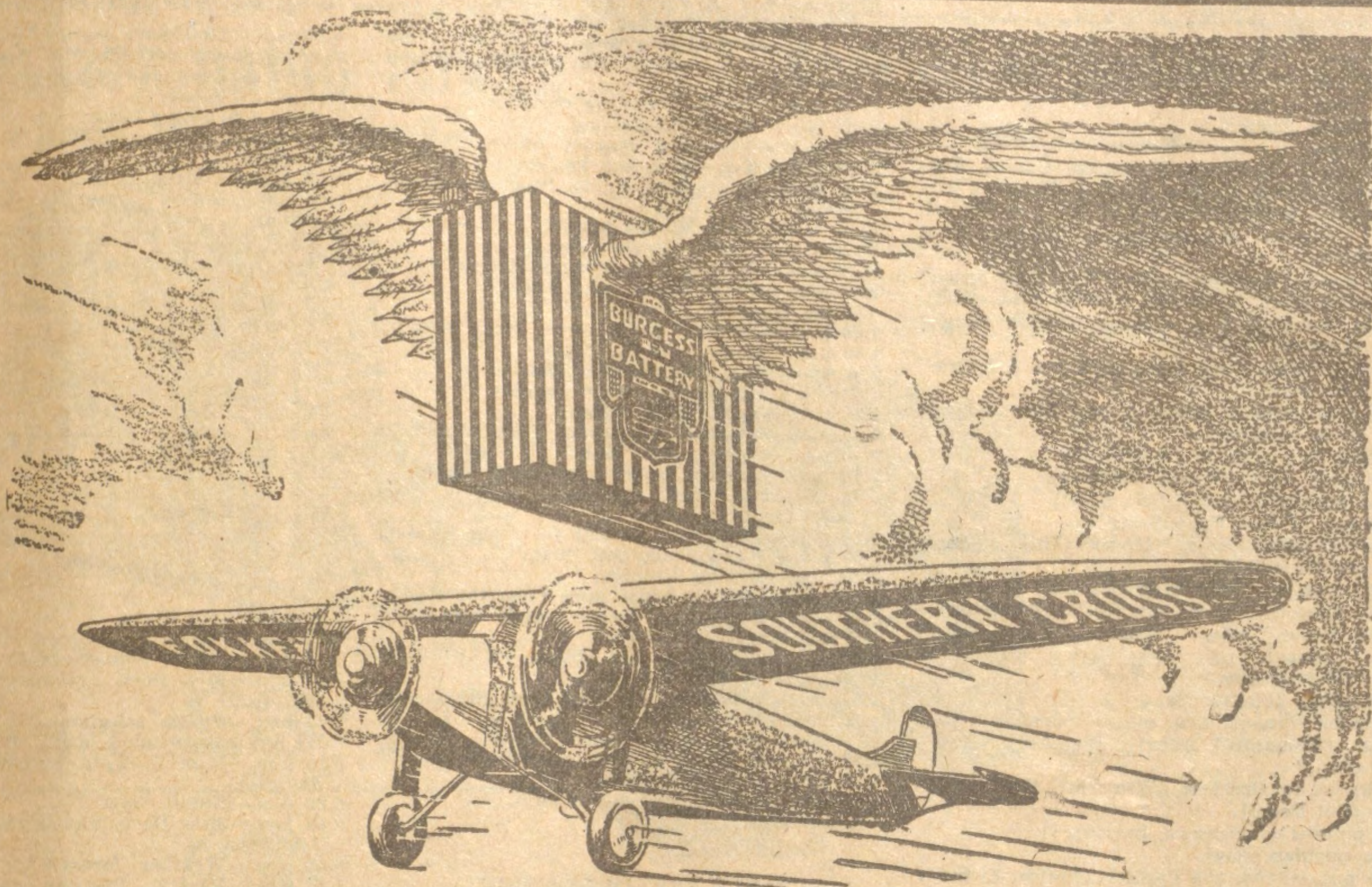
6.50 p.m.—From the Hotel Australia:

The Hotel Australia Orchestra.

7.15 p.m.—Studio music.

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





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## NIGHT SESSION.

- 7.40 p.m.—Programme announcements.  
 7.43 p.m.—Elliott Napier will continue his talks on:  
 "Walks Abroad."  
 7.58 p.m.—A foreword to the next item.  
 8 p.m.—"Big Ben." From the Capitol Theatre, Sydney: The Capitol Theatre Orchestra, under the baton of Mr. Ted Henkel.  
 8.15 p.m.—At the Wurlitzer Organ: Fred Scholl.  
 8.20 p.m.—From the Studio: "The Four Scots."  
 (a) Quartet, "Hundred Pipers" (Mansfield).  
 (b) Soprano solo, "Auld Scotch Songs" (Leeson).  
 (c) Quartet, "My Love she's but a Lassie" (Pittman).  
 8.30 p.m.—Edgar Warwick and Eileen Dawn, radio sketch:  
 "Not Important."  
 8.42 p.m.—Len Maurice, baritone:  
 In popular songs.  
 8.50 p.m.—"The Four Scots":  
 (a) Contralto solo, "Heather Hills c' Scotland" (Riddel).  
 (b) Humor, "First Wee Drappie" (Fyfe).  
 (c) Quartet, "Scots sha hae" (Templeton).  
 (d) Tenor solo, "Bonnie Wee Bairn" (Noanas).  
 9 p.m.—"Big Ben."  
 Weather intelligence.  
 9.1 p.m.—Francis Lea, mezzo soprano:  
 (a) "Romanza" from "Cavalleria Rusticana."  
 (b) "The Greatest Wish in the World" (Del Reigo).  
 9.9 p.m.—Len Maurice, baritone:  
 In popular songs.  
 9.15 p.m.—From the Capitol Theatre, Sydney: Stage presentation.  
 9.40 p.m.—From the Studio: Edgar Warwick and Eileen Dawn, radio sketch:  
 "The Contradiction."  
 9.50 p.m.—"The Four Scots":  
 (a) Humor, "Teaching Mackay to Play the Pipes" (Fyfe-Simpson).  
 (b) Duet, "Ye Banks and Braes" (Lee).  
 (c) Quartet, (a) "Mary" (Richardson). (b) "Loss o' Gowrie" (Pittman).  
 10 p.m.—The Ambassadors' Dance Band. Conductor, Mr. Manuel Hyman.  
 10.10 p.m.—Francis Lea, Mezzo soprano:  
 (a) "Love will find a way," from "Maid of the Mountains."  
 (b) "Vilia," from "The Merry Widow."  
 10.18 p.m.—The Ambassadors' Dance Band. Conductor, Mr. Manuel Hyman.  
 10.26 p.m.—Fred Moore, baritone:  
 10.34 p.m.—The Ambassadors' Dance Band. Conductor, Mr. Manuel Hyman.  
 10.40 p.m.—Fred Moore, baritone.  
 10.48 p.m.—The Ambassadors' Dance Band. Conductor, Mr. Manuel Hyman.  
 10.57 p.m.—Late news and to-morrow's programme.  
 11 p.m.—"Big Ben."  
 National Anthem.  
 Close down.

## 2BL, SYDNEY.

WEDNESDAY, 27th JUNE, 1928.

## EARLY MORNING SESSION.

8 a.m. to 9 a.m.

## MORNING SESSION.

- 11 a.m.—G.P.O. Clock and chimes.  
 Talk on "Athletics" by Miss Varley, Broadcasters Women's Sports Authority.  
 Talk on "The Stammering Child" by Miss Temple.

## 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.  
 News from the "Sun."  
 1.40 p.m.—Musical programme from studio.  
 1.50 p.m.—News from the "Sun."  
 2 p.m.—G.P.O. Clock and chimes.  
 Musical programme from studio.  
 2.20 p.m.—News from "Sun."  
 2.30 p.m.—Musical programme from studio.  
 2.40 p.m.—News from "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."  
 4.48 p.m.—Musical programme from the studio.  
 4.15 p.m.—News session.  
 4.30 p.m.—Dungowan Dance Band.  
 4.50 p.m.—Features of evenings programme.  
 4.52 p.m.—Racing Resume.  
 5 p.m.—G.P.O. Clock and chimes.  
 Close down.

## EARLY EVENING SESSION.

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

## SPECIAL COUNTRY SESSION.

- 7 p.m.—G.P.O. Clock and chimes.  
 Racing resume.  
 Australian Mercantile Land and Finance Co.'s Report.  
 Weather report and forecast by courtesy of 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."  
 7.45 p.m.—News from the "Sun."  
 8 p.m.—G.P.O. Clock and chimes.  
 8.1 p.m.—A Concert Comprising Orchestral items from the Conservatorium of music, Ashfield Band and Studio Artists.  
 10.15 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.

## 2GB, SYDNEY

WEDNESDAY, 27th JUNE, 1928.

## MORNING SESSION.

- 10 a.m.—Music.  
 10.10 a.m.—Happiness Talk.  
 10.20 a.m.—Music.  
 10.30 a.m.—Women's Session.  
 11.15 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.  
 8 p.m.—Opening Chorus.  
 8.2 p.m.—Humorous Recital by Mr. Heath Burdock.  
 8.15 p.m.—Address.  
 8.30 p.m.—Concert from the Straube Piano Salon.  
 9 p.m.—Talk by Dr. du Maurier.  
 9.20 p.m.—Violin solos by Miss Phyllis Campbell.  
 9.30 p.m.—Further Programme from the Straube Piano Salon.  
 10 p.m.—Close down.

## 2UW, SYDNEY

WEDNESDAY, 27th JUNE, 1928.

## EVENING SESSION.

- 7 p.m.—Studio items.  
 7.10 p.m.—Where to go session.  
 7.14 p.m.—Dinner music.  
 7.50 p.m.—Miss Doris Fitzmaurice, elocutionist Selected.  
 7.57 p.m.—Studio selections.  
 8.2 p.m.—News items, mails, shipping, etc.  
 8.15 p.m.—Miss G. Tyerman, pianoforte solo: Selected.  
 8.22 p.m.—Studio item.  
 8.28 p.m.—Miss Doris Fitzmaurice, elocutionist Selected.  
 8.42 p.m.—Weather forecast.  
 8.45 p.m.—Miss G. Tyerman, pianoforte solo: Selected.  
 8.52 p.m.—Studio selection.  
 9 p.m.—Talk by Mr. J. K. Powell.  
 9.20 p.m.—Dance music and request numbers.  
 10 p.m.—Close down.

## 3LO, MELBOURNE

WEDNESDAY, 27th JUNE, 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 a.m.—Weather forecast for all States. Mails.  
 7.40 a.m.—News.  
 8 a.m.—Melbourne Observatory time signal.  
 8.1 a.m.—Express train information.  
 8.2 p.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 Society for Protection of Animals, A. T. LATHAM: "The Work of the Society."  
 11.20 a.m.—Musical interlude.  
 11.25 a.m.—MRS. M. CALLAWAY MAHOOD will speak on "The Room as a Picture."  
 11.40 a.m.—Musical interlude.  
 11.45 a.m.—MRS. CLARENCE WEBER, the Physical Culture Expert: A Health Talk.

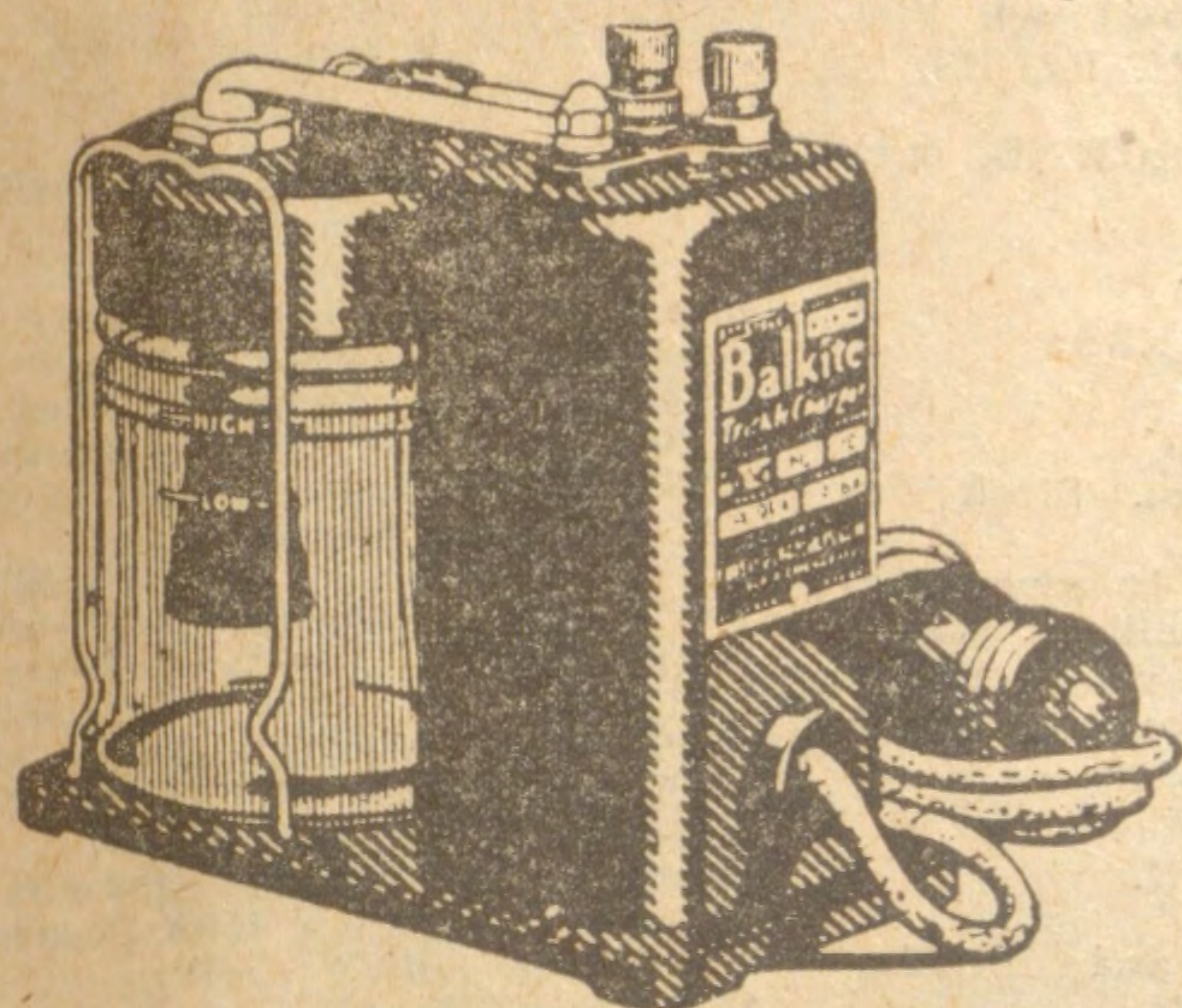
## MIDDAY SESSION.

- 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.



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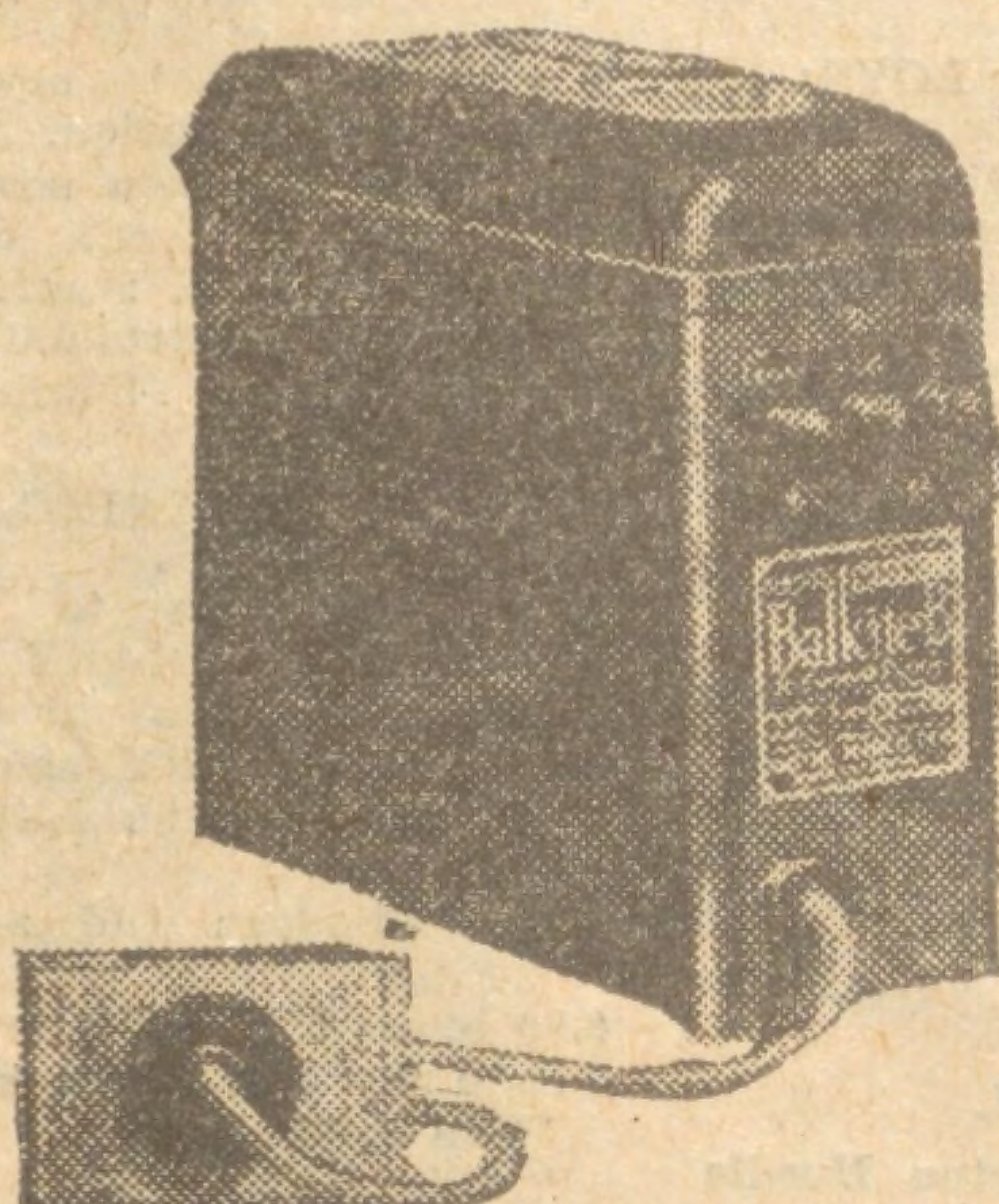
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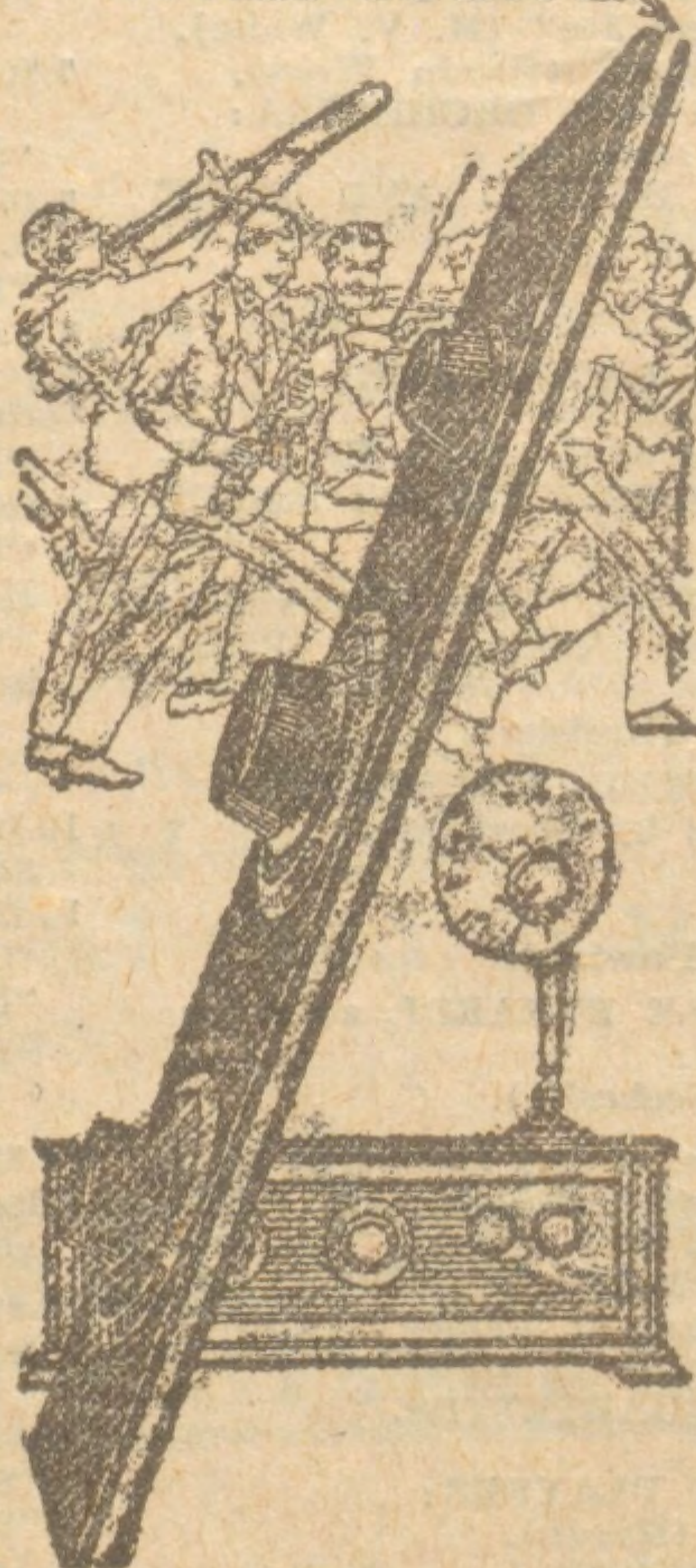
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- British Official Wireless News from Rugby. Reuter's and the Australian Press Association cables. "Argus" news service.
- 12.20 p.m.—JOHNSTON'S STUDIO BOYS:  
Overture, "Poet and Peasant."  
March, "Deeds of Daring."
- 12.30 p.m.—MARJORIE LAWRENCE, soprano:  
"My Heart is Sair for Somebody" (Weatherley).  
"The Sweetest Flower that Blows" (Hawley).
- 12.37 p.m.—Stock Exchange information.
- 12.40 p.m.—JOHNSTON'S STUDIO BOYS:  
Selection, "The Gondoliers" (Sullivan).
- 12.50 p.m.—RUPERT HAZELL AND ELSIE DAY:  
"Harmonylarity."
- 1.3 p.m.—JOHNSTON'S STUDIO BOYS:  
"Gypsy Love."
- 1.13 p.m.—Meteorological information. Weather forecast for Victoria, Tasmania, South Australia and New South Wales. Ocean forecasts. River reports.
- 1.20 p.m.—MARJORIE LAWRENCE, soprano:  
"Adrift" (Bantock).  
"Ring, Bells, Ring" (Day).
- 1.27 p.m.—JOHNSTON'S STUDIO BOYS:  
Cornet solo, "Song of the Volga Boatman."
- 1.30 p.m.—Transmission from the Hotel Australian, Collins Street, Melbourne. Speeches at the Rotary Club luncheon.
- 2 p.m.—Progress results of the Tour de France road championship, conducted in France (by 3LO's special representative, Bruce Small).
- 2.5 p.m.—Close down.

## AFTERNOON SESSION.

- 2.12 p.m.—Description of the Clayton Hurdle Race, two miles, Sandown Park Races, by Eric Welch.
- 2.20 p.m.—THE STATION ORCHESTRA:  
Waltz, "The Blue Danube" (Strauss).
- 2.30 p.m.—MARCELLE ERARDI, soprano:  
"Daffodil Gold" (Hodgson).  
"Sometimes in Summer" (Bennett).
- 2.37 p.m.—THE STATION ORCHESTRA:  
"Tales of the Vienna Woods" (Waldteufel).
- 2.43 p.m.—Description of the Lyndhurst Corinthian Handicap, 1¼ miles, SANDOWN PARK RACES, by Eric Welch.
- 2.50 p.m.—ISOBEL BIDDELL, contralto:  
"John Anderson, my Joe" (M. V. White).  
"Bird of Love Divine" (Haydn Wood).
- 2.57 p.m.—THE STATION ORCHESTRA:  
"Destiny Waltz" (Baynes).
- 3.3 p.m.—RUPERT HAZELL AND ELSIE DAY:  
"Harmonylarity."

## A VARIED PROGRAMME.

- 3.15 p.m.—Description of the Tally Ho Handicap, 6 furlongs, SANDOWN PARK RACES, by Eric Welch.
- 3.20 p.m.—TRIO—CHAS. TAYLOR, violin; TASMA TIERNAN, 'cello; LES RICHMOND, piano:  
"Londonderry Air" (Kreisler).
- 3.25 p.m.—THE STATION ORCHESTRA:  
Three Coster Songs by Chevalier:  
"My Old Dutch."  
"Wot'cher."  
"The Future Mrs. Hawkins."
- 3.35 p.m.—MARCELLE BERARDI, soprano:  
"Valse" (Coppelia).  
"A Bergerette" (Weckerlin).
- 3.42 p.m.—Description of the Melbourne Hunt Steeplechase, 2¼ miles, SANDOWN PARK RACES, by Eric Welch.
- 3.50 p.m.—THE STATION ORCHESTRA:  
Suite, "The Merchant of Venice" (Rossi).

## STRING QUARTETTES.

- 4 p.m.—THE GYPSY PLAYERS:  
"String Quartet" (Haydn).
- 4.10 p.m.—ISOBEL BIDDELL, contralto:  
"The Robin Sings in the Apple Tree" (McDowell).
- 4.13 p.m.—Description of the Dingley Steeplechase, 2¼ miles, SANDOWN PARK RACES, 2¼ miles, SANDOWN PARK RACES, by Eric Welch.

- 4.20 p.m.—THE GYPSY PLAYERS:  
"String Quartet" (Haydn).
- 4.30 p.m.—J. ALEXANDER BROWNE, baritone:  
"Pleading" (Elgar).  
"Friend" (Clare Davies).
- 4.37 p.m.—THE GYPSY PLAYERS:  
"String Quartet" (Mozart).
- 4.45 p.m.—Description of the Oakleigh Welter, 1 mile, SANDOWN PARK RACES, by Eric Welch.
- 4.50 p.m.—J. ALEXANDER BROWNE, baritone:  
"The Flag" (Hazelhurst).  
"Royster Doyster" (Matherson).
- 4.57 p.m.—THE GYPSY PLAYERS:  
Selected.

## NEWS SESSION.

- 5 p.m.—"Herald" news service. Stock Exchange information.
- 5.15 p.m.—Progress scores will be given during the afternoon of the billiard match. Frank Ferrara, South Africa, versus Walter Lindrum, Australia, played at the Alcock Billiard Room, South Melbourne.

## EVENING SESSION.

- 6 p.m.—Answers to letters and birthday greeting by "MARY MARY."
- 6.20 p.m.—Musical interlude.
- 6.25 p.m.—"MARY MARY":  
A story for the Little Ones—"Little Half Chick."  
For Children Old and Young—"The Pied Piper."
- 6.50 p.m.—Musical interlude.
- 6.55 p.m.—WILLIAM TAINSH:  
"The Axeman."  
"Polly Dibbs."  
"The Traveller."

## SPORTING NEWS.

- 7.10 p.m.—Progress results of the Tour de France Road Cycling Championship, conducted in France (by 3LO's Special Representative—Bruce Small).
- 7.15 p.m.—Under the Auspices of the DEPARTMENT OF AGRICULTURE, R. CROWE, Exports Superintendent, will speak on:  
Marketing Methods."
- 7.30 p.m.—P. W. PEARCE, Physical Culture Expert, will speak on:  
"Colds, Cold Feet, and Chilblains."
- 7.45 p.m.—OUT OF THE PAST.
- 7.46 p.m.—CAPTAIN C. H. PETERS:  
"Books, Wise and Otherwise."
- 8 p.m.—A MAKER OF HISTORY.
- 8.1 p.m.—CHORAL AND ORCHESTRAL CONCERT by THE MELBOURNE PHILHARMONIC SOCIETY—Assisted by the UNIVERSITY SYMPHONY ORCHESTRA (conductor, Professor Bernard Heinze)—  
Transmitted from the Town Hall, Melbourne.

## FROM THE STUDIO.

- 10.15 p.m.—THE STATION ORCHESTRA:  
Selection, "Pagliacci" (Leoncavallo).
- 10.25 p.m.—MARCELLE BERARDI, soprano:  
"Chanson Indoue" (Rimsky-Korsakoff).  
"Bergerettes" (Weckerlin).

## NEWS.

- 10.32 p.m.—"Argus" news service. Meteorological information. British official wireless news from Rugby.
- 10.42 p.m.—STATION ORCHESTRA:  
Incidental music to "The Conqueror" (German).
- 10.52 p.m.—GUY MOORE, tenor:  
"Sea Rapture" (Coats).  
"Sylvain" (Sinding).
- 11.10 p.m.—OUR GREAT THOUGHT.
- 11.1 p.m.—THE VAGABONDS.
- 11.15 p.m.—Final scores of to-day's session of the Billiard Match, Frank Ferrara (South Africa) versus Walter Lindrum (Australia).
- 11.16 p.m.—THE VAGABONDS.
- 11.40 p.m.—GOD SAVE THE KING.

## 3AR, MELBOURNE

WEDNESDAY, 27th JUNE, 1928.

## MORNING NEWS SESSION.

9 a.m. to 10 a.m.

## MORNING MUSICAL SESSION.

- 10 a.m.—The Studio Orchestra:  
Selection, "L'Engant Prodigue" (Wormser).  
"Toreador et Andalouse" (Rubinstein).
- 10.20 a.m.—Ethel Heaney, Soprano:  
"The Bitterness of Love" (Dunn).  
"The Star" (Rogers).
- 10.27 a.m.—Herbert Pettifer, violin:  
"Chanson Meditation" (Cotteneb).
- 10.31 a.m.—The Studio Orchestra:  
"L'Arlesienne—Part 1" (Bizet).
- 10.46 a.m.—Robert Allen, male alto:  
"A Brown Bird Singing" (H. Wood).  
"Macushla" (MacMurrrough).
- 10.53 a.m.—The Studio Orchestra:  
Overture, "To an Irish Comedy" (Ansell).  
"A Love Suite" (Lake).
- 11.6 a.m.—Ethel Heaney, soprano:  
"Who Knows?" (Ball).  
Negro Spiritual, "Steal Away" (Brown).
- 11.13 a.m.—The Victoria Trio:  
Selected.
- 11.23 a.m.—Robert Allen, male alto:  
"Vale of Dawn" (Wood).  
"God Touched the Rose" (Brown).
- 11.30 a.m.—The Studio Orchestra:  
"Orientale" (Cui).  
Selection, "The Cabaret Girl" (Kern).
- 11.45 a.m.—Julia Russell, soprano:  
"Voi lo Sapete" (Mascagni).  
"The Winds are Calling" (Ronald).
- 11.52 a.m.—The Victoria Quartette:  
Selected.
- 12.2 p.m.—Julia Russell, soprano:  
"Chanson de Florian" (Godard).  
"The Dove" (Landon Ronald).
- 12.10 p.m.—The Studio Orchestra:  
Suite, "Scenes from the South" (Nicod).  
Selection, "The Maid of the East" (Neale).
- 12.28 p.m.—Newmarket Stock Sales, by courtesy of John McNamara and Co.
- 12.30 p.m.—Close down.

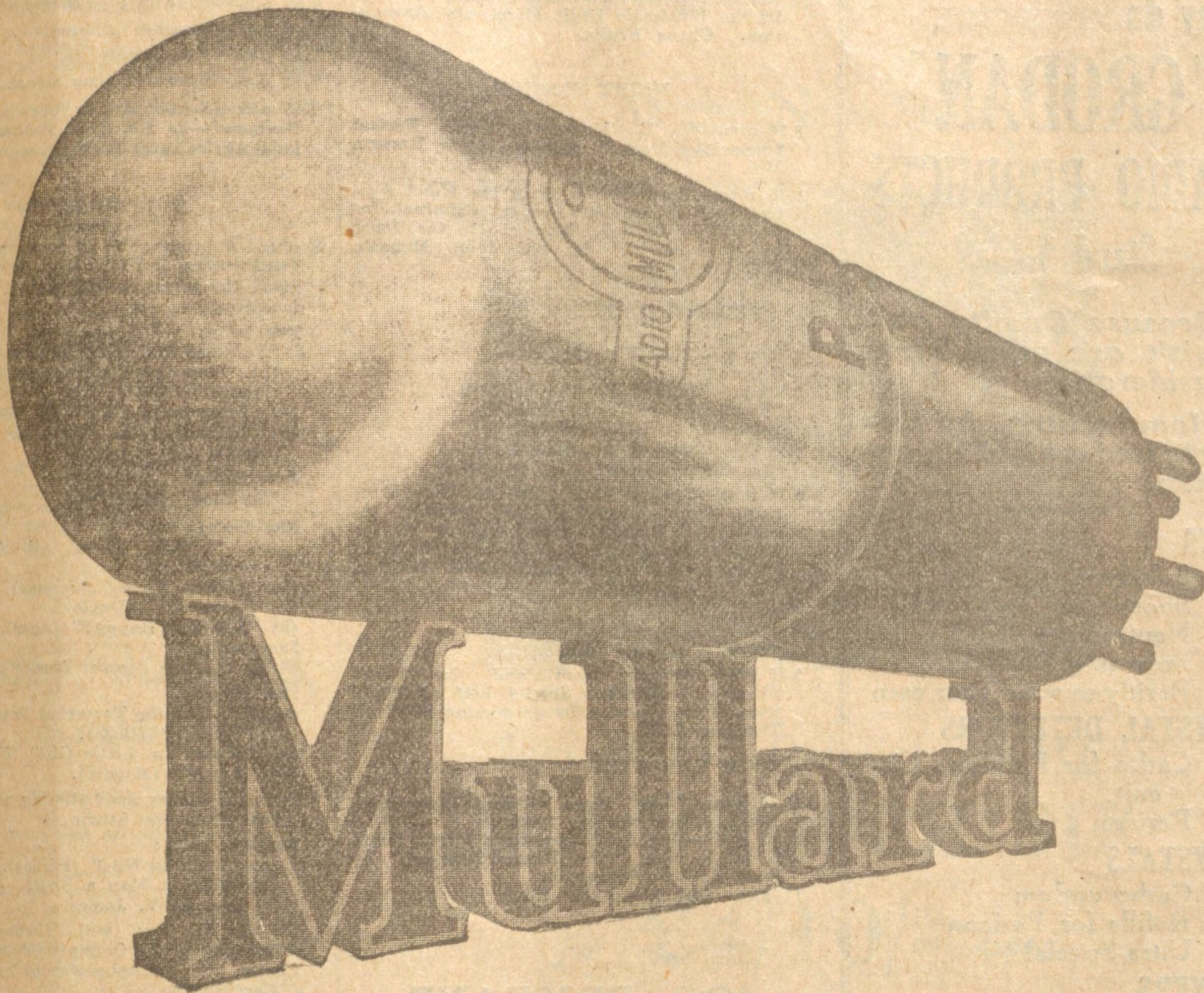
## EVENING SESSION.

- 5 p.m.—May's Band:
- 5.30 p.m.—Dorothy Huhs, soprano:  
"Elsa's Dream" (Wagner).  
"At Night" (Rachmaninoff).
- 5.37 p.m.—The Gypsy Players:  
"The Calif of Bagdad."  
"Dancing Nymphs."
- 5.52 p.m.—Dorothy Roxburgh, viola:  
"Gavotte" (Simonetti).  
"Consolation" (Squire).
- 6 p.m.—Alan Adcock, entertainer:  
Songs at the Piano.
- 6.7 p.m.—May's Band:
- 6.30 p.m.—Dorothy Huhs, soprano:  
"To a Messenger" (La Forge).  
"To the Sun" (Surran).
- 6.37 p.m.—The Gypsy Players:  
6.52 p.m.—Bertha Jorgenson, violin:  
"Sonata." (Handel).
- 7 p.m.—Alan Adcock, entertainer:  
Songs at the Piano:
- 7.7 p.m.—The Gypsy Players:
- 7.30 p.m.—May's Band:

## NEWS SESSION.

- 8 p.m.—Stock reports by courtesy of John McNamara and Co. Official report of Newmarket Stock Sales by the Associated Stock and Station Agents, Bourke Street, Melbourne.
- 8.5 p.m.—"Herald" news service. Weather synopsis. Shipping movements.
- 8.12 p.m.—Stock Exchange information.
- 8.17 p.m.—Fish Market reports by J. R. Barrett Ltd. Rabbit prices.
- 8.19 p.m.—River reports.
- 8.21 p.m.—Market reports by the Victorian Producers' Co-operative Co. Ltd. Poultry, grain, hay, straw jute, dairy produce, potatoes.





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## NIGHT SESSION.

8.30 p.m.—C. E. Monteath, organ Recital transmitted from St. Peter's Church, Eastern Hill.

8.45 p.m.—Transmission from the Hotel Australia—First Annual Dinner, Criminal Investigation Branch. Response to the Toast of 'Our Guests' by Sir John Monash, K.C.M.G.

## FROM THE STUDIO.

8.55 p.m.—The Victoria Trio: Selected.

9.5 p.m.—Herbert Pettifer, violin: "Rondino" (Beethoven-Kreisler). "Melodie" (Gluck-Kreisler).

9.11 p.m.—Ronald Brearley, cello: "La Cinquantaine" (Gabriel-Marie).

9.15 p.m.—Transmission from the Hotel Australia—First Annual Dinner, Criminal Investigation Branch. The response to the Toast of the C.I. Branch and the Victorian Police Force by Brigadier Gen. Blamey, Chief Comm. Police.

9.25 p.m.—From the Studio: The Victoria Trio: "Waltz" (Teresa Carena).

9.30 p.m.—Ernest Cram and the Tivoli Theatre Orchestra. Second half of Tivoli Theatre Programme, by permission of Tivoli Theatres Ltd.

## FROM THE STUDIO.

10.40 p.m.—"Age" news service. Announcements. Final weather forecast.

10.59 p.m.—Our Australian Good Night Quote is taken from "The Drama Eternal," by Ivan Archer Rosenblum.

11 p.m.—God Save the King.

## 4QG, BRISBANE

WEDNESDAY, 27th JUNE, 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.—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 "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 signal.

7.45 p.m.—Lecturette: "Organising Farm Business"—by Mr. C. B. Gallway (Queensland Agricultural High School and College).

## NIGHT SESSION.

8 p.m.—A programme of dance music by Alf Featherstone and his Studio Syncopators, relayed (by arrangement) from Hotel Carlton, including:—

Fox trots:

"Paradise and You" (Packay).

(b) "Someday You'll Say O.K." (Donaldson).

(a) "Someone Else Took My Place" (Lewis).

(b) "Watching the World Go By" (Brennan).

Jazz waltz:

"So Blue" (De Sylva).

Fox trots:

(a) "I Told Them All About You" (Friend).

(b) "Dream Kisses" (Jerome).

(a) "Gorgeous" (Davis).

(b) "Are You Happy?" (Ager).

Jazz waltz:

"In a Little Spanish Town" (Wagner).

Fox trots:

(a) "Trail of the Tamarind Tree" (Nicholls).

(b) "Picardy" (Rose).

(a) "Wake Up, Little Girl" (Herscher).

(b) "Angry" (Meeum).

Between dances the following will be broadcast from the Studio:

Baritone solos:

(a) "Back to Hilo" (Hickey).

(b) "Give a Man a Horse" (Head).

Mr. A. V. James.

Mr. J. H. Foy will discuss Australia's chances in the Olympic Games.

Cornet and mellophone solos by Miss Ruby Carrick.

Soprano solos:

(a) "At My Window" (Parker).

(b) "No, No, No" (Mattei).

Miss May Jordan.

Hawaiian Instrumentalists: The Aloha Novelty Trio.

10 p.m.—"The Daily Mail" news.

Weather news.

Close down.

## 6WF, PERTH.

WEDNESDAY, 27th JUNE, 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.—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.

6.45 p.m.—Tune in.

The evening transmission is broadcast on 1045. metres of programme given on 1250 metres.

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.

## Thursday, June 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" news 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.

1.28 p.m.—Stock Exchange, second call.

1.30 p.m.—Eileen Moreau, soprano.

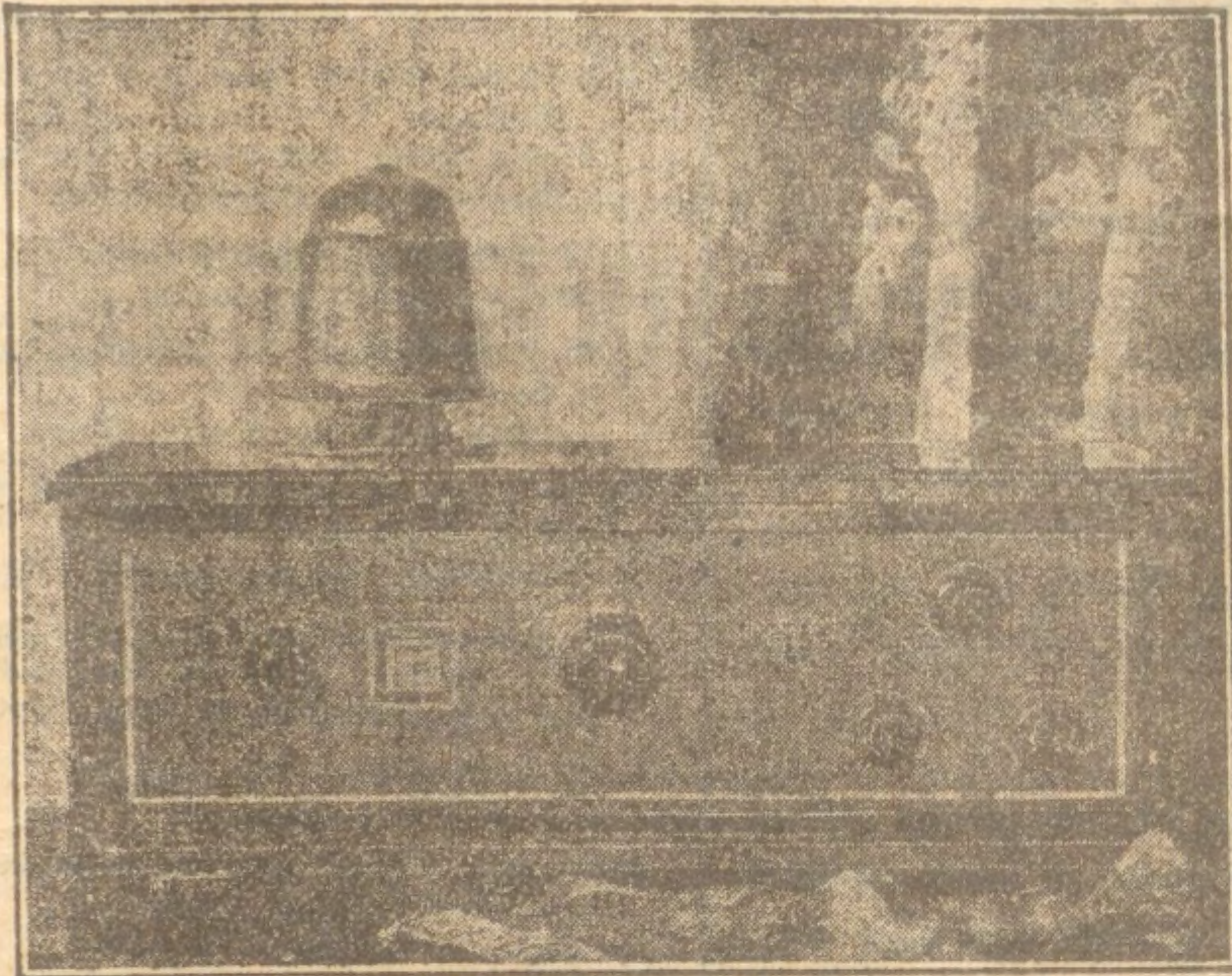
1.34 p.m.—Popular Dance Items.

1.45 p.m.—Eileen Moreau, soprano.

1.50 p.m.—The 2FC Racing Commissioner will give the latest track work.

2 p.m.—"Big Ben." Close down.

## At the New Store



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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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*Castlereagh, Market & Elizabeth Streets.*





## Humble Homage

I laid my heart on my radio set that the wireless music of the "Southern Cross" might play across its strings. Listening, I shed the stunted thing called Self and swung out upon the vast Pacific in the mighty Plane—living the minutes with its heroes.

In the gathering glory of a nation's homage, I shared the Courage of Comrades and the jests at Peril. I rose and fell with the storm and craved sight in the darkness, exulting when sunshine showed the Australian coast ahead.

Long before Kingsford Smith landed as Mascot he had flown softly on radio wings into the homes of his countrymen, in a wireless triumph comparable with the trans-Pacific Odyssey.

In this hour of rejoicing, while the tears of suspense are still salt on women's cheeks, it is surely fitting that an Australian radio house, New System Telephones Pty., Ltd., should share in the great achievement.

While others doubted or deferred, they acted,—cabling the radio gift which, above all else, secured the safety of Kingsford Smith and enabled the whole world to listen in.

Nor will any one deny the Company its crowning gratification in the following cable message sent after the landing:

**Burgess Battery Co.  
Chicago.**

**"Burgess Batteries stood up to it 100 per cent.**

**Kingsford Smith"**

### AFTERNOON SESSION.

- 3 p.m.—"Big Ben" and announcements.
- 3.3 p.m.—From the Congregation Church, Pitt Street, Sydney:  
An organ recital by Lilian Frost.
- 3.20 p.m.—From the Studio. Doris Orr, soprano:  
"Kindness" (Lebbeus Horderà).
- 3.25 p.m.—From the Congregation Church, Sydney:  
Items from the organ recital by Lilian Frost.
- 3.40 p.m.—From the Studio:  
Nellie Kemp, soprano.
- 3.45 p.m.—From the Congregation Church, Sydney:  
Organ solos by Lilian Frost.
- 4 p.m.—"Big Ben." From the Studio: Doris Orr, soprano:  
"Jerusalem re-conquered" (Tillottson).
- 4.5 p.m.—From the Congregation Church, Pitt Street, Sydney: Concluding items of the organ recital by Lilian Frost.
- 4.20 p.m.—From the Studio:  
Nellie Kemp, soprano.
- 4.23 p.m.—From the Ambassadors: The Ambassadors' Dance Orchestra, conducted by Manuel Hyman.
- 4.30 p.m.—A talk by Delisse.
- 4.45 p.m.—Stock Exchange, third call.
- 4.47 p.m.—From the Ambassadors:  
Dance music.
- 5 p.m.—"Big Ben."  
Close down.

### EARLY EVENING SESSION.

- 5.40 p.m.—The chimes of 2FC.
- 5.45 p.m.—The "Hello Man" talks to the children.
- 6.25 p.m.—Children's music.
- 6.30 p.m.—Late sporting news.
- 6.35 p.m.—Dalgety's market reports (wool, wheat, and stock).
- 6.43 p.m.—Fruit and vegetable markets.
- 6.48 p.m.—Weather and shipping news.
- 6.50 p.m.—From the Hotel Australia: Dinner music by the Hotel Australia Orchestra.
- 7.15 p.m.—Studio music.
- 7.30 p.m.—"Evening News" late news service.

### NIGHT SESSION.

- 7.40 p.m.—Programme announcements.
- 7.42 p.m.—Mr. Medley and Mr. Motley.
- 7.52 p.m.—"That's the Limit." Competition No. 1.
- 7.54 p.m.—Daisy Richards, Violin Solos.
- 8.3 p.m.—From the Sydney Town Hall:  
"Debate on Prohibition."  
Three Speakers in the affirmative from the Prohibition Alliance.  
Three Speakers in the negative from the Citizens' Rights and Reform Association.
- 10.5 p.m.—From the Studio:  
Vladimir Elin, Russian Baritone.
- 10.14 p.m.—Daisy Richards, Violin Solos.
- 10.22 p.m.—The Ambassadors' Dance Band. Conductor, Mr. Manuel Hyman.
- 10.36 p.m.—Late Weather Forecast.
- 10.38 p.m.—The Ambassadors' Dance Band. Conductor, Mr. Manuel Hyman.  
Music from the Studio at intervals.
- 10.57 p.m.—Late News. To-morrow's Programme.
- 11.0 p.m.—"Big Ben." The Ambassadors' Dance Band. Conductor, Mr. Manuel Hyman—interspersed with items from the Studio.
- 11.45 p.m.—"Big Ben." From the Studio:  
National Anthem. Close Down.

## 2BL, SYDNEY.

THURSDAY, 28th JUNE, 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 "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 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."
- 4.55 p.m.—Features of evenings programmes.
- 4.57 p.m.—Producers Distributing Society's Poultry report.
- 4.59 p.m.—Racing resume.
- 5 p.m.—G.P.O. Clock and chimes. 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 Govt. 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."
- 7.45 p.m.—Helpful Hints to Listeners by Mr. Alan Burrows.
- 8 p.m.—G.P.O. Clock and chimes. Broadcasters Topical Chorus.
- 8.3 p.m.—Mr. Lawrence Broadbent, baritone.
- 8.10 p.m.—The Wurlitzer Organ broadcast from the Arcadia Theatre, Chatswood. Organist. Mr. N. Robins.



8.20 p.m.—Miss Amy Ostringa, contralto.  
 8.27 p.m.—The British Music Society String Quartette.  
 8.34 p.m.—Mr. Norman Wright, tenor.  
 8.41 p.m.—Mr. Leslie McCallum, (Flautist.)  
 8.48 p.m.—Weather report and forecast by courtesy of Mr. C. J. Mares, Govt. Meteorologist.  
 9 p.m.—G.P.O. Clock and chimes.  
 Miss Molly De Gunst, soprano.  
 9.7 p.m.—"The Happy Prince" A Story by Oscar Wilde with incidental music by Liza Lehmann arranged for piano, first and second violins, cello, flute and viola.  
 9.22 p.m.—Mr. Lawrence Broadbent.  
 9.29 p.m.—The British Music Society String Quartette.  
 9.36 p.m.—Miss Amy Ostringa.  
 9.43 p.m.—Mr. Norman Wright.  
 9.50 p.m.—Mr. Leslie McCallum.  
 9.57 p.m.—Miss Molly De Gunst.  
 10.4 p.m.—The Wurlitzer Organ broadcast from the Arcadia Theatre, Chatswood.  
 10.25 p.m.—Resume of following day's programme.  
 10.30 p.m.—The Wentworth Cafe Orchestra under the direction of Mr. Jimmy Elkins broadcast from the Wentworth. During intervals between dances "Sun" news and Wentworth Social notes will be broadcast.  
 11.30 p.m.—G.P.O. Chock and chimes.  
 National Anthem.

## 2GB, SYDNEY

THURSDAY, 28th JUNE, 1928.

## MORNING SESSION.

10 a.m.—Music.  
 10.10 a.m.—Happiness Talk.  
 10.20 a.m.—Music.  
 10.30 a.m.—Women's Session.  
 11.15 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.  
 8 p.m.—Opening Chorus.  
 8.2 p.m.—Violin Solos by Mr. Dan Scully.  
 8.8 p.m.—Songs by Miss Billie Kirkham.  
 8.15 p.m.—Address.  
 8.30 p.m.—Frank Lua and his Steel Guitar.  
 8.37 p.m.—Humorous Items by Mr. Reg. Harrison, Comedian.  
 8.45 p.m.—Songs by Mr. Vitcor Earle.  
 8.52 p.m.—Pianoforte Solos by Miss Ada Brook.  
 9 p.m.—Talk.  
 9.20 p.m.—Songs by Miss Billie Kirkham.  
 9.27 p.m.—Violin solos by Mr. Dan Scully.  
 9.33 p.m.—Humorous Items by Mr. Reg. Harrison, Comedian.  
 9.42 p.m.—Frank Lua and his Steel guitar.  
 9.50 p.m.—Songs by Mr. Victor Earle.  
 10 p.m.—Close down.

# 16/- B Batteries now - 10/-

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**R**ADIO Reductions extraordinary!  
 Here is your opportunity to secure thoroughly tested "B" Batteries, guaranteed maximum capacity—at a big money-saving!

	Usually	Sale Price
45 Volt .....	12/6	8/9
60 Volt .....	16/-	10/-
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Also 11/6 Harts' 2 Volt Accumulator for ..... 8/9  
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Thousands of others. Sale Catalogue Free! Half Freight paid on all Radio Goods, including Batteries up to 5-lbs. in weight to nearest Post Office, Railway Station or Port.

## Builders demand space—Huge Stocks must be cleared! Here are some of the cut prices!

	Usually	Sale Price
£7/7/- Suits to Measure .....		£5/17/-
22/6 Men's All-Wool Pullovers, to .....		13/11
90/- to 115/- Men's Tweed Overcoats .....		79/6
84/- Youths' D.B. Sac Suits .....		72/6
30/- Boys' Cotswold Suits .....		23/8
95/- Slazenger's "Primax" Tennis Racquets ...		65/-

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 When writing kindly address your letter to Desk A 2.

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## 3LO, MELBOURNE

THURSDAY, 28th JUNE, 1928.

### EARLY MORNING SESSION.

- 7.15 a.m.—"Herald" Breakfast Hour (Morning Melodies).
- 7.20 a.m.—Physical Culture Exercises (to music).
- 7.26 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.—Express Train Information.
- 8.2 a.m.—NEWS. Sporting Information; Shipping; Stock Exchange Fluctuations.
- 8.13 a.m.—Morning Melodies.
- 8.15 a.m.—Close Down.

### MORNING SESSION.

- Announcer ..... MAURICE DUDLEY
- 11.0 a.m.—3LO's CULINARY COUNSELS, or How to Create Creature Comforts with a Minimum of Cash.
- 11.5 a.m.—J. HOWLETT ROSS:  
"The Love Story of Two Poets—the Brownings."
- 11.20 a.m.—Musical Interlude.
- 11.25 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, "The Helpful Hen—Simple Poultry Keeping."

### 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; News Service.

### COMMUNITY SINGING.

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

### FROM THE STUDIO:

- 1.45 p.m.—Meteorological Information; Weather Forecast for Victoria, Tasmania, New South Wales, and South Australia; Ocean Forecasts; River Reports.
- 1.55 p.m.—Close Down.

During the afternoon progress scores will be given of the billiard match—Frank Ferrara (South Africa) v. Walter Lindrum (Australia). Played at the Alcock Billiard Room, South Melbourne.

### AFTERNOON SESSION.

- 2.15 p.m.—THE STATION ORCHESTRA:  
"The Magpie and the Parrot" (Benedix).  
"The Gentle Dove"—Cello Solo.
- 2.25 p.m.—MARCELLE BERARDI, Soprano:  
"Charmante Oiseau," with flute.  
Obligato by JOSEPH BARRILLE. (Davis).  
"I Hear a Thrush at Eve."
- 2.32 p.m.—THE STATION ORCHESTRA:  
Novelty.  
"In a Bird Store" (Lake).  
"The Broken-Hearted Sparrow" (Benedix).
- 2.42 p.m.—TRIO: CHAS. TAYLOR, violin; TASMA TIERNAN, 'cello; LES RICHMOND, piano:  
"Nina" (Pergolesi).
- 2.47 p.m.—JAMES HILL, Baritone:  
"The Song of the Clock."  
"Somewhere a Voice is Calling."

- 2.54 p.m.—THE STATION ORCHESTRA:  
"Lo, Here the Gentle Lark," Duet for Flute and Clarinet, played by JO. BARRILLE and CHAS. McFEE:  
"The Boy and the Bird" (Lincke).

### EDUCATION HOUR.

- 3.0 p.m.—DR. LOFTUS HILLS:  
"The Topics of the Week."
- 3.15 p.m.—WILLIAM G. JAMES will talk to Students of Music.
- 3.30 p.m.—REV. WILLIAM BOTTOMLEY will speak on:  
"Thomas Carlyle."

### CLASSICAL GEMS.

- 3.45 p.m.—THE STATION ORCHESTRA:  
"Miserere and Anvil Chorus," from "Il Trovatore" (Verdi).  
"Humoresque" (Dvorak).
- 3.55 p.m.—MARCELLE BERARDI, Soprano:  
"Chanson de Solveig."  
"Serenata" (Halm).
- 4.2 p.m.—THE STATION ORCHESTRA:  
Overture, "The Flying Dutchman."

### HUMOROUS INTERLUDE.

- 4.12 p.m.—RUPERT HAZELL AND ELSIE DAY:  
"Harmonylarity."
- 4.24 p.m.—THE STATION ORCHESTRA:  
"Ramona," Popular Waltz Song.
- 4.28 p.m.—JAMES HILL, Baritone:  
"Four Jolly Sailorsmen."  
"Your England and Mine."

### NEWS SESSION.

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

### EVENSONG.

- 4.45 p.m.—Evensong, transmitted from St. Paul's Cathedral, Melbourne.

### SPORTING.

- 5.30 p.m.—Acceptances for Williamstown Races on Saturday.
- 5.40 p.m.—Close Down.  
The results of Craigieburn Races will be given during the afternoon as they come to hand.

### EVENING SESSION.

- 6.0 p.m.—Answers to Letters and Birthday Greetings by BOBBY BLUEGUM.
- 6.20 p.m.—Musical Interlude.
- 6.25 p.m.—"BOBBY BLUEGUM":  
Will tell a Story.
- 6.45 p.m.—A CONCERT FOR CHILDREN, arranged by FRITZ HART:  
MARY HOTHAM, Mezzo Soprano:  
"To Music" (Schubert).  
"Where Go the Boats" (Del Riego).  
"A Ship Went a-sailing" (Nursery Rhyme).  
MURIEL CAMPBELL, Violin:  
"Les Graces Naturelles" (Couperin).  
"Three Poor Mariners" (Quilter).  
IDA SCOTT, Piano:  
"Capricette" (Brooke).  
"Pierette" (Farrar).  
Accompanist: Ida Scott.

### NIGHT SESSION.

- 7.15 p.m.—Under the auspices of the HEALTH ASSOCIATION, T. J. RYAN will speak on:  
"Oral Hygiene."
- 7.30 p.m.—MISS ANNIE CROFT, now appearing in "The Girl Friend," will speak to you from her dressing-room at the Theatre Royal (by permission of J. C. Williamson, Ltd.).
- 7.45 p.m.—OUT OF THE PAST:
- 7.46 p.m.—ROD MCGREGOR will speak on:  
"Football."



3LO's DANCE PROGRAMME.

- 8.0 p.m.—THE VAGABONDS.  
 8.9 p.m.—MARJORIE LAWRENCE, Soprano:  
 "Garden of Happiness" (Wood).  
 8.12 p.m.—THE VAGABONDS.  
 8.21 p.m.—RUPERT HAZELL and his one-  
 stringed fiddle.  
 8.24 p.m.—THE VAGABONDS.  
 8.33 p.m.—JOHN D. FRASER, Baritone:  
 "Little Town in Ould Country Down"  
 (Sanders).  
 8.36 p.m.—THE VAGABONDS.  
 8.45 p.m.—R. WEICHARD, Tenor:  
 "When the Dream is There" (D'Hardelot).  
 8.48 p.m.—THE VAGABONDS.  
 8.57 p.m.—MARJORIE LAWRENCE:  
 "All Joy be Thine" (Sanderson).  
 9.0 p.m.—THE VAGABONDS.  
 9.9 p.m.—ELSIE DAY, Soprano:  
 "A Request Item."  
 9.12 p.m.—THE VAGABONDS.  
 9.21 p.m.—JOHN D. FRASER, Baritone:  
 "June Music" (French).  
 9.24 p.m.—THE VAGABONDS.  
 9.33 p.m.—R. WEICHARD, Tenor:  
 "The Little Azure Rings" (Cecil Cameron).  
 9.36 p.m.—THE VAGABONDS.  
 9.45 p.m.—RUPERT HAZELL AND ELSIE  
 DAY:  
 "Harmonylarity."  
 9.48 p.m.—THE VAGABONDS.  
 9.57 p.m.—MARJORIE LAWRENCE, Soprano:  
 "To Sing Awhile" (Drummond).  
 10.0 p.m.—"Argus" News Service; Meteoro-  
 logical Information; British Official Wire-  
 less News from Rugby; Soccer Notes.  
 10.15 p.m.—THE VAGABONDS.  
 10.24 p.m.—R. WEICHARD, Tenor:  
 "Irish Love Song" (M. R. Lang).  
 10.27 p.m.—THE VAGABONDS.  
 10.36 p.m.—JOHN D. FRASER, Baritone:  
 "An Old Carol" (Quilter).  
 10.39 p.m.—THE VAGABONDS.  
 10.48 p.m.—R. WEICHARD, Tenor:  
 "When I'm Home Again" (Daniel Wood).  
 10.51 p.m.—THE VAGABONDS.  
 11.0 p.m.—OUR GREAT THOUGHT.  
 11.1 p.m.—THE VAGABONDS.  
 11.15 p.m.—Final Scores of to-day's Session  
 of the Billiard Match, Frank Ferrara versus  
 Walter Lindrum, played at the Alcock  
 Billiard-room, South Melbourne.  
 11.16 p.m.—THE VAGABONDS.  
 11.40 p.m.—GOD SAVE THE KING.

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## The Famous "Six-sixty" Valve

British-made

A Dull Emitter Valve of out-  
 standing quality, for all stages  
 of L.F. amplification, giv-  
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 speaker operation. British made  
 in two special types. Price, 13/6



PRICE:  
13/6

### Type SS610P

Type SS610P, for use  
 with 6-Volt Accumulator;  
 filament current, 0.1  
 Amp.; Max. filament  
 Voltage, 6 volts; Max.  
 Anode Voltage, 100 volts.

### Type SS410P

Type SS410P, for use with  
 4-volt accumulator; fila-  
 ment current, 0.1 Amp.;  
 Max. Filament Voltage,  
 4 volts; Max. Anode  
 Voltage, 100 volts.

## 3AR, MELBOURNE

THURSDAY, 28th JUNE, 1928.

### MORNING NEWS SESSION.

9 a.m. to 10 a.m.

### MORNING MUSICAL SESSION.

- 10 a.m.—The Studio Orchestra:  
 Suite of Five Dances, "Carnival" (M. Ring).  
 "In the Ruins" (Kempinski).  
 10.15 a.m.—Carrie Gray, soprano:  
 "The Birth of Morn" (Leoni).  
 "Open Thy Blue Eyes" (Massenet).  
 10.22 a.m.—Don McCalman, saxophone:  
 "Russian Elegy" (Schroen).  
 10.28 a.m.—The Victoria String Quartette:  
 Selected:  
 10.38 a.m.—Ralph Thompson, baritone:  
 "Sombre Woods."  
 "My Heaven in the Hills" (Clark).  
 10.46 a.m.—The Studio Orchestra:  
 Suite, "Summer Days" (Coates).  
 "Neapolitan Fishermen" (Rubenstein).  
 11.1 a.m.—Carrie Gray, soprano:  
 "Bird Lullaby" (Sanderson).  
 "Loves Echo" (Newton).  
 11.8 a.m.—The Studio Orchestra:  
 "Grieg Fantasie" (Urbach).

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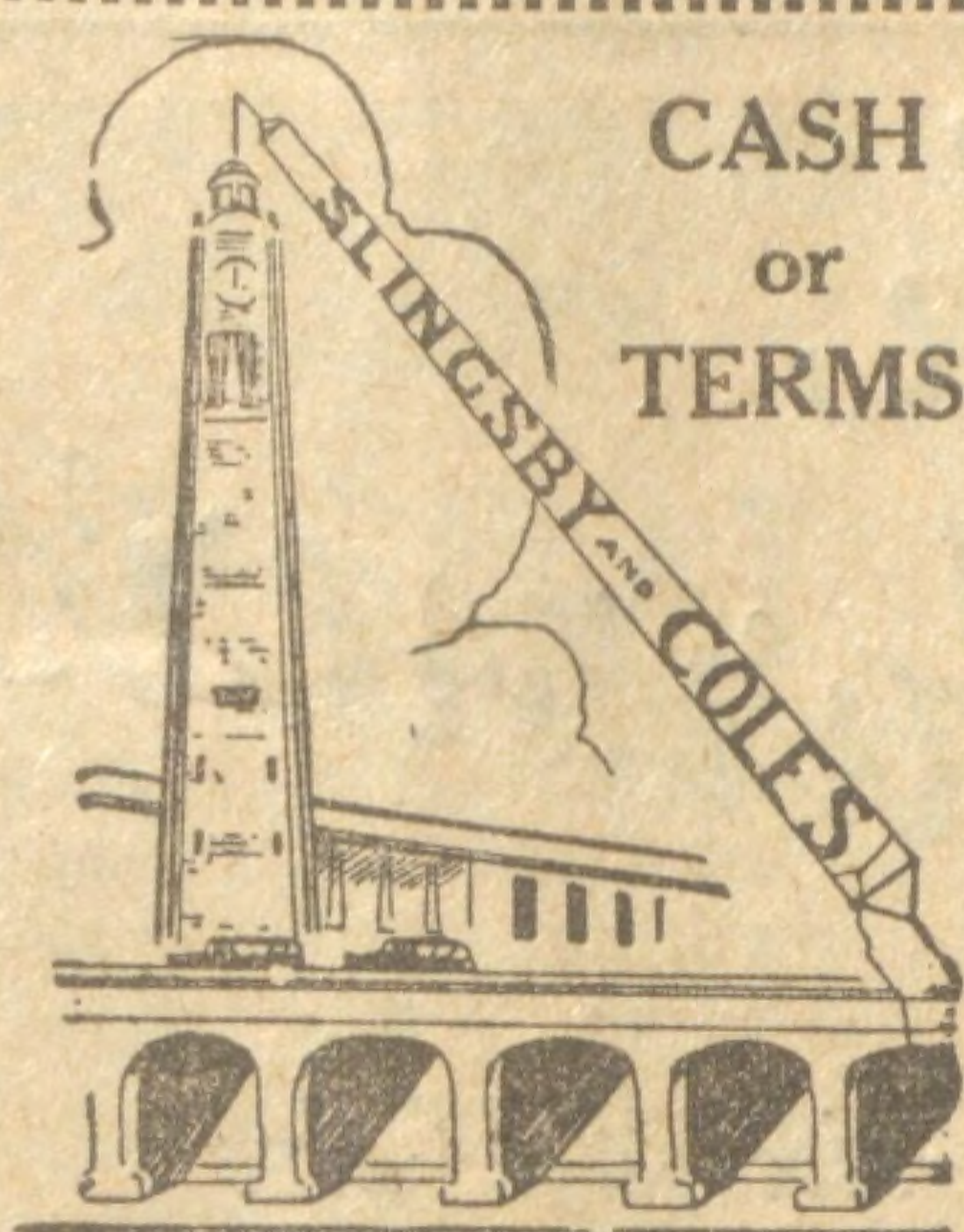
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- 11.25 a.m.—Ralph Thompson, baritone:  
"I Attempt from Love's Sickness to Fly"  
(Purcell).  
"Two Grenadiers" (Schumann).  
11.32 a.m.—The Studio Orchestra:  
Suite Dansante, "Intermezzo" (Rosse)  
"Spanish Gypsy Dance" (Mourney)  
11.48 p.m.—Valerie Walsh, contralto:  
"Hindoo Song" (Bemberg).  
"Fuchsia Tree" (Roger Quilter).  
11.55 a.m.—The Victoria Trio:  
Selected.  
12.3 p.m.—Ken Code, trombone:  
"Because" (Guy d'Hardelot).  
12.7 p.m.—Valerie Walsh, contralto:  
"The Clothes of Heaven" (Dunhill).  
"The Bitterness of Love" (Dunne).  
12.15 p.m.—The Studio Orchestra:  
Suite, "Scenes Pittoresques" (Massenet).  
"La Pella Espagnola" (Tobani).  
12.28 p.m.—Stock reports, by courtesy of John  
McNamara and Co.  
12.30 p.m.—Close down.

#### EVENING SESSION.

- 5 p.m.—May's Band.  
5.30 p.m.—Julia Russell, soprano.  
5.37 p.m.—The Gypsy Players:  
"Magic Flute" (Mozart).  
5.52 p.m.—Helga Brennecke, 'cello:  
"Ave Verum" (Mozart).  
"Rustic Dance" (Squire).  
6 p.m.—Newstead Rush, bass:  
"Blow, Blow, Blow Winter Wind" (Sar-  
geant).  
"O, Star of Eve" (Wagner).  
6.7 p.m.—May's Band.  
6.30 p.m.—Julia Russell, soprano:  
"Boat Song" (Harriet Ware).  
"I Will Await Thee" (C. Clarke).  
6.37 p.m.—The Gypsy Player:  
Selection, "No, No, Nanette" (Youmans).  
Trio:  
"Chant sans Paroles" (Tschaikowsky).  
"Salve Dunora" (Gounod).  
7 p.m.—Newstead Rush, bass:  
"Let me Love Thee" (Arditi).  
"Within These Sacred Bowers" (Mozart).  
7.7 p.m.—The Gypsy Players:  
Selection, "Primrose" (Gershwin).  
"Moonlight Melody" (Watson).  
"Two Guitars" (Horlick).  
7.30 p.m.—May's Band.

#### NEWS AND MARKET REPORTS.

- 8 p.m.—Stock reports, by courtesy of John  
MacNamara and Co. Official report of  
Newmarket stock sales by the Associated  
Stock and Station Agents, Bourke Street,  
Melbourne.  
8.10 p.m.—"Herald" news service. Weather  
synopsis. Shipping movements.  
8.12 p.m.—Stock Exchange information.  
8.17 p.m.—Fish market reports by J. R. Bor-  
rett, Ltd. Rabbit prices.  
8.19 p.m.—River reports.  
8.21 p.m.—Market reports by the Victorian  
Producers' Co-operative Co., Ltd. Poultry,  
grain, hay, straw, jute, dairy produce, pota-  
toes 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.

- 8.30 p.m.—The Studio Orchestra:  
Overture, "Peter Scholl" (Weber).  
"Romance" (Tschaikowsky).

- 8.45 p.m.—Ethel Heaney, soprano:  
"At Dawning" (Cadman).  
"Cradle me low" (May Brahe).  
8.52 p.m.—The Studio Orchestra:  
Suite, "The Fragrant Year" (M. Ewing).  
"Dainty Damsel" (M. Baron).  
9.17 p.m.—John Hobbs, bass baritone:  
"At Grendon Fair" (P. Marie).  
"An Old Garden" (Hope Temple).  
9.14 p.m.—One Act Play:  
Victorian Railways Institute, under direc-  
tion Winifred Moverley.

#### THE STEPMOTHER.

- 9.32 p.m.—The Studio Orchestra:  
Suite, "The Village Green" (Elsie April).  
Suite, "La Source" (Leo Delibes).  
9.47 p.m.—Ethel Heaney, soprano:  
"They Say" (Warwick Evans).  
"Lonesome, That's All" (Roberts).  
9.54 p.m.—Announcements.  
10 p.m.—G.P.O. chimes.  
10.1 p.m.—Weather forecast.  
10.3 p.m.—The Studio Orchestra:  
Selection, "Mary Jane McKane" (Youmans).  
Suite, "On the Nile" (Hilse).  
10.18 p.m.—Herbert Pittefer, violin:  
Moderato and Intermezzo:  
"Hungarian Dance, No. 5" (Brahms).  
10.26 p.m.—John Hobbs, bass baritone:  
"A Farewell" (S. Liddle).  
"The Adjutant" (H. Fisher).  
10.34 p.m.—The Studio Orchestra:  
"A Godard Cycle" (Ernest Urbach).  
10.50 p.m.—"Age" news.  
10.58 p.m.—Final weather forecast.  
10.59 p.m.—Our Australian Good-night Quota  
is taken from the poem, "Love and Sacri-  
fice," by Bernard O'Dowd.  
11 p.m.—God Save the King.

**4QG, BRISBANE**

**THURSDAY, 28th JUNE, 1928.**

#### MORNING SESSION.

10.30 a.m. to 11.30 a.m.

#### MIDDAY SESSION.

- 1.0 p.m.—Market Reports. Weather Informa-  
tion; "The Daily Mail" and "The Daily  
Standard" News.  
1.20 p.m.—A Lunch Hour Address.  
1.58 p.m.—Standard Time Signal.  
2.0 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.

- 6.0 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.—"Petroleum on the Land"—by  
"Gargoyle."  
6.28 p.m.—Announcements.



6.30 p.m.—Bedtime Stories by "The Sandman."  
7.0 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.—Lecturette, "Rural Life in Other Lands" (No. 3)—by Mr. J. F. F. Reid (Editor, "Queensland Agricultural Journal").

#### NIGHT SESSION.

A programme by the City Tabernacle Choir, under the leadership of Mr. Sydney May.  
8.0 p.m.—God Save the King.  
Organ, "Offertoire in D" (Batiste).  
Part-song, "O Canada" (Lavallee).  
Recit., "Deeper and Deeper Still" (Handel).  
Air, "Waft Her, Angels" (Handel).  
Mr. Jack Land.  
Organ, "Le Cygne" (Saint-Saens).  
Air, "Come Ever Smiling Liberty" (Handel).  
Miss Blanche Curnow.  
Part-song, "The Indian Maid" (arr. J. L. Hatton).  
Organ, "Melody in F" (Rubinstein).  
Song, "The Blind Ploughman" (Clarke).  
Mr. Victor Westacott.  
Organ, "Finlandia" (Sibelius).  
Part-song, "Hymn Before Action" (W. Davies).  
Monologue, "Home Sweet Home" (Brewer).  
Miss Joyce Debnam.  
Song, "Somewhere" (Meale).  
Mr. Edgar Mansfield.  
Organ, "Salut d'Amour" (Elgar).  
Part-song, "Drink to Me" (arr. H. E. Button).  
Air, "Slumber, Dear Maid" (Handel).  
Miss Mae King.  
Song, "The Nightingale's Trill" (Ganz).  
Miss Gladys Kelly.  
Part-song, "Annie Laurie" (arr. J. Curle).  
Air, "Lord, to Thee, Each Night and Day" (Handel).  
Miss Alma Meggitt.  
Song, "Vagabond's Song" (Cundell).  
Mr. Ernest Harper.  
Part-song, "John Peel" (arr. J. E. West).  
Organ, "On Wings of Song" (Mendelssohn).  
Doxology.  
Mr. Sydney May: Organist and Choirmaster.  
10.0 p.m.—"The Daily Mail" News; Weather News; Close Down.

#### Radio Club.

**REPLIES TO QUERIES:** Readers not possessing a wireless set are invited to make use of these columns. A.J., Marrickville, the address of the Radio Movie Club is c/o Metro-Goldwyn-Mayer, 160 Castlereagh Street, Sydney. There is no entrance fee for joining the club. F.D., Box Hill, Victoria, asks for the name of the actor who played the part of Greta Garbo's son in "Love" and where his mail can be addressed. His name was Phillipe de Lacy, and he can be reached by addressing your letter to Grant E. Dolge, 6331 Hollywood Boulevard, U.S.A. F.B., Camperdown: Thanks for your letter, Fred; hope to hear soon about those new members. Our meeting takes place every Saturday morning at Mark Foys. R.L., Waverley, asks if Harold Lloyd is married. Yes, to Mildred Harris. N.Z., Dulwich Hill, asks for Ramon Navarro's correct name. It is Ramon Samaniegos.



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## Readers' Queries Answered

**LEARNER (NUNDAH).**—The article you ask for has not yet appeared, but it is hoped to deal with this at an early date.

**BRADLEYOHM (STANMORE).**—The Emmcostad resistance with a value of 1/4 to 100,000 ohms will be effective as a substitution for the Bradleyohm for the filter tuner circuit.

**J.B. (TEMPY).**—The three Philips A509 valves may be used in the circuit of the Selectrex Four. Referring to the Go-Getter, there is no necessity to alter any wiring to use the Philips B605 in the last stage of audio amplification, although the correct grid biasing must be used for this valve for maximum results. Using the variable tuning condenser specified in the Go-Getter, a grid coil of 14 turns of Airzone coil material will cover the range up to 66 meters.

**C.W. (ERSKINEVILLE).**—The circuit you have enclosed illustrating the inclusion of a stage of audio amplification for the Extraordinary One valve receiver, is quite correct. There is no necessity to use separate A and B batteries, and these may be connected up in the usual manner as applied to any two valve receiver, using a stage of audio amplification.

**MOTOR BOATING (JUNEE).**—I am sorry that nothing can be done to eliminate the harmonics from local broadcast stations on the short wave bands. I certainly agree with you that they are a nuisance, but they have one saving grace, which is that a short wave receiver may be reasonably calibrated by calculating the harmonics received, presuming, of course, that the broadcast station in question is operating on the frequency stated. The dead spots in your tuning will be overcome by using a looser coupling for the aerial system, either by means of magnetic or capacity coupling, or alternatively by altering the length of your aerial. An efficient short wave circuit requires only a very small aerial, and practically no earth connection, as the capacity to earth from the receiver itself is usually sufficient. You should not be troubled by "motor boating." This is more likely to be what is described in England as "fringe howl." A change of grid leak valve or detector valve will usually overcome this if the B supply is constant.

**F.S. (MITCHAM, S.A.).**—The buzz that you receive at intervals on your neutrodyne is more likely to be interference from the electric power supply. There are many sources of such interference which are very hard to trace. Usually the electrical authorities are only too willing to try and help in this matter. A 200-turn Honeycomb coil may be used as a radio frequency choke, but this form of choke is likely to introduce what are known as blind spots in the receiver. This is evident where oscillation stops at certain dial settings, and is due to resonance from the choke with harmonics of the aerial and earth system. I cannot offer any solution as to the station you heard in the early hours with a foreign announcer.

**E.B. (PYRMONT).**—The sketch you have enclosed of your Go-Getter receiver is quite in order, but from your description it seems

that you are having trouble with smooth oscillation. This is probably due to an unsuitable grid leak for the detector valve you are using. Try a different combination of leak and B battery voltage on the plate of the detector valve. The Gecophone condenser used for tuning the grid circuit is so arranged as to have 4 rotor and 3 stator plates. All these plates are double spaced, which is most important in order to cover each waveband fully and at the same time preserve the ease of tuning required at these high frequencies. Until you overcome the backlash in your oscillation control you will find it almost impossible to receive any long distance telephony.

**T.E. (BALMAIN).**—As you do not say what the distance is from your own house to your neighbor's, it is rather difficult to advise what gauge of wire to use. Ordinary lighting flex will normally be quite suitable, and will stand considerable usage from the weather.

**J.A.D. (TAREE).**—The Emmco Golden Voice Transformer will be ideal for use in the Peridyne circuit. There is no difference in any wiring in order to use the accumulator "B" battery in place of the usual dry cells; 4 volt valves are capable of extremely good results, but for maximum volume I advise you to use the 6-volt type. The volume from the Peridyne is enormous if the set is properly constructed and used with suitable valves.

**HARKNESS (BRISBANE).**—Suitable valves for the Harkness Reflex Two are the Osram DEL410 type. These should be used with a "B" battery voltage of 90 with a tapping for the detector of 45 to 60 volts.

**J.F. (ALEXANDRIA).**—If the "C" battery is O.K. in voltage, this should not decrease the volume from the audio amplifier of your Harkness Three, unless, of course, the battery has been connected in the grid circuit of the amplifier with the polarity reversed.

**H.E.C. (ASHFIELD).**—I very much regret that under the acute circumstances you mention, it will be extremely difficult to overcome the interference from your street lighting supply. If this interference is so intense, it is possible that the authorities will be able to trace the fault. In some cases, this is due to leaking insulators. Action by the authorities is I am afraid the only remedy.

**R.V. (LITHGOW).**—The 1928 Browning Drake will be a more efficient circuit than the one you mention. Any good inter-valve transformers of the correct ratio may be used. You will find a full description of this circuit and its associated amplifiers in the March issue of "Radio."

**A.T. (DRUMMOYNE).**—In the screen grid, four described in "Radio" for May, the grid leak is connected from the grid of the detector valve to the A positive, although this may be varied from positive to negative for best results, according to the valve used.

**M.C. (STRATHFIELD).**—Your observations regarding the Carborundum crystal in the Peridyne circuit are interesting, but this ill effect will be overcome by substituting an inter-valve transformer of a higher impedance for the first audio stage. As you have not mentioned the transformers you are using, I advise you to try the new Philips transformer.

**R.F. (BONDI).**—The introduction of reaction in the neutrodyne circuit involves no complication. A 35-turn reaction coil placed inside the neutroformer with a 9-plate midget variable condenser for oscillation control will be sufficient. The use of reaction in this circuit will considerably increase the selectivity and range. For the construction of a Reinartz coil unit, wind the 3 coils on a for-

mer 3 inches in diameter. The primary should have 25 turns, the secondary 50, and the reaction 35, of No. 28 D.S.C. copper wire. These windings will be correct if the tuning condenser used has a capacity of .0005 mfd. The reaction condenser may be .00035. Referring to your aerial system, I am of the opinion that 70 feet of electron wire will be far preferable to the other system you propose to use.

**M.P. (BONDI).**—Your "Improved One Valve Receiver" is apparently being used with insufficient "B" battery voltage on the plate of the valve. Also it may be advisable to try different values of grid leaks, and possibly valves. The capacity of the reaction condenser should be ample to produce smooth oscillation.

**L.R. (KIAMA).**—It will be far more satisfactory to build a separate short wave receiver such as the Go-Getter than to use an adaptor with your existing broadcast receiver. This does not mean to imply that an adaptor will not function well, but occasionally difficulties arise with the audio amplifying portion of the broadcast receiver used. You may partially rejuvenate your valves by reversing the "B" battery connections and leaving the set switched on in this manner for two hours or more.

**G.W. (MURGON).**—Usually the gauge of wire for winding the reaction coil for a short wave coil unit is 34 or 36 D.S.C. copper wire. In the Go-Getter receiver, the gauge of wire is the same as for the grid coil, i.e., 16 D.C.C. A grid coil may be constructed for the broadcast band consisting of 75 turns of No. 26 D.S.C. wire with a 40-turn reaction coil. Normally, the Go-Getter receiver should not be used on the broadcast band, as a higher capacity is necessary to cover the range of wavelengths.



Registered Trade Mark.

Published by Arthur William Watt, of "Astoria," Kirribilli, for the Proprietors, Wireless Newspapers Limited, 51 Castlereagh Street, Sydney; and printed by Marchant & Co. Ltd., 321 Pitt Street, Sydney.

The Editor will be glad to consider Technical and Topical Articles of interest to Australian Readers. All Manuscripts and Illustrations are sent at the author's risk, and although the greatest care will be taken to return unsuitable matter (if accompanied by stamps), the Editor cannot accept responsibility for its safe return.

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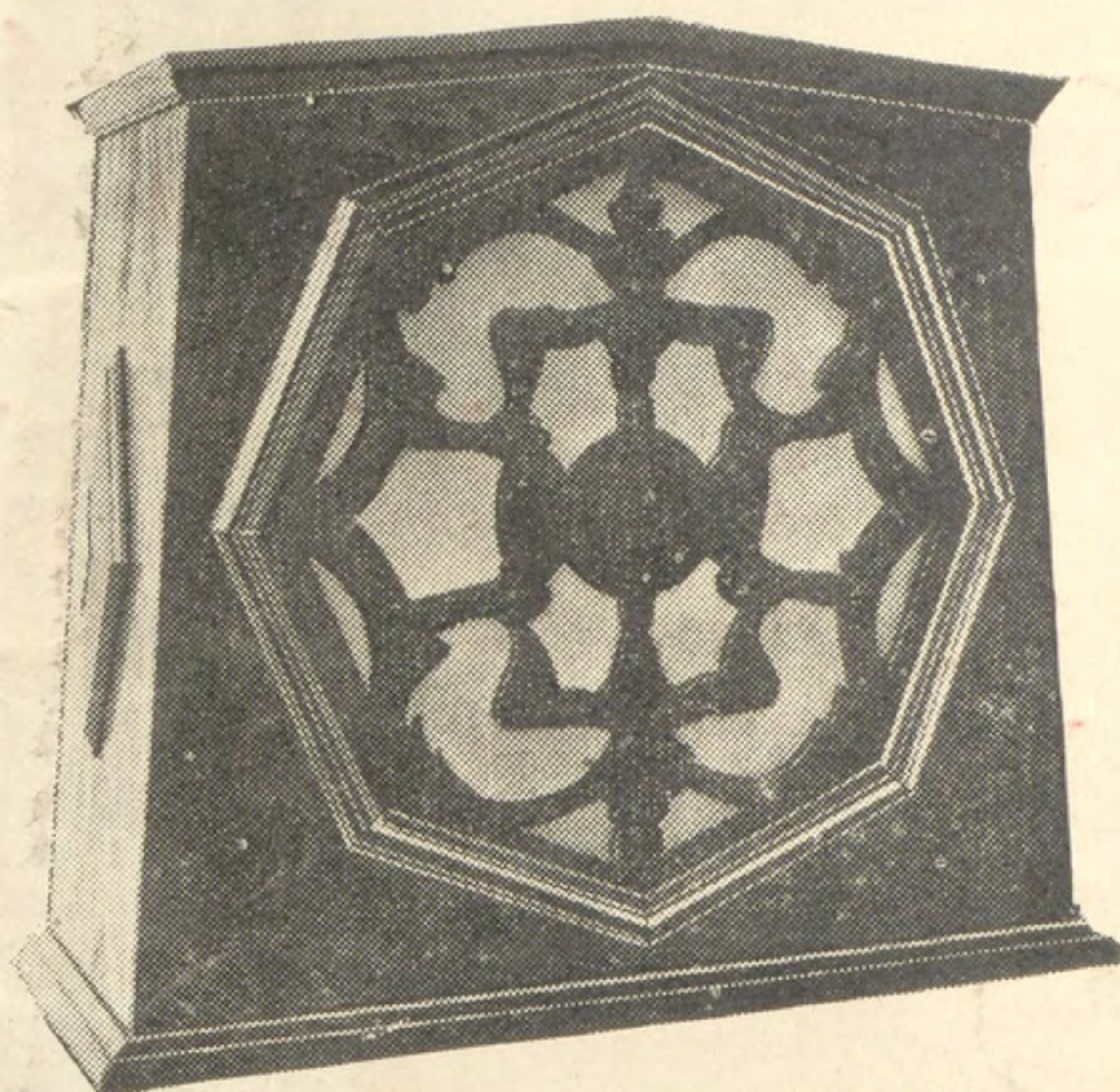
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