

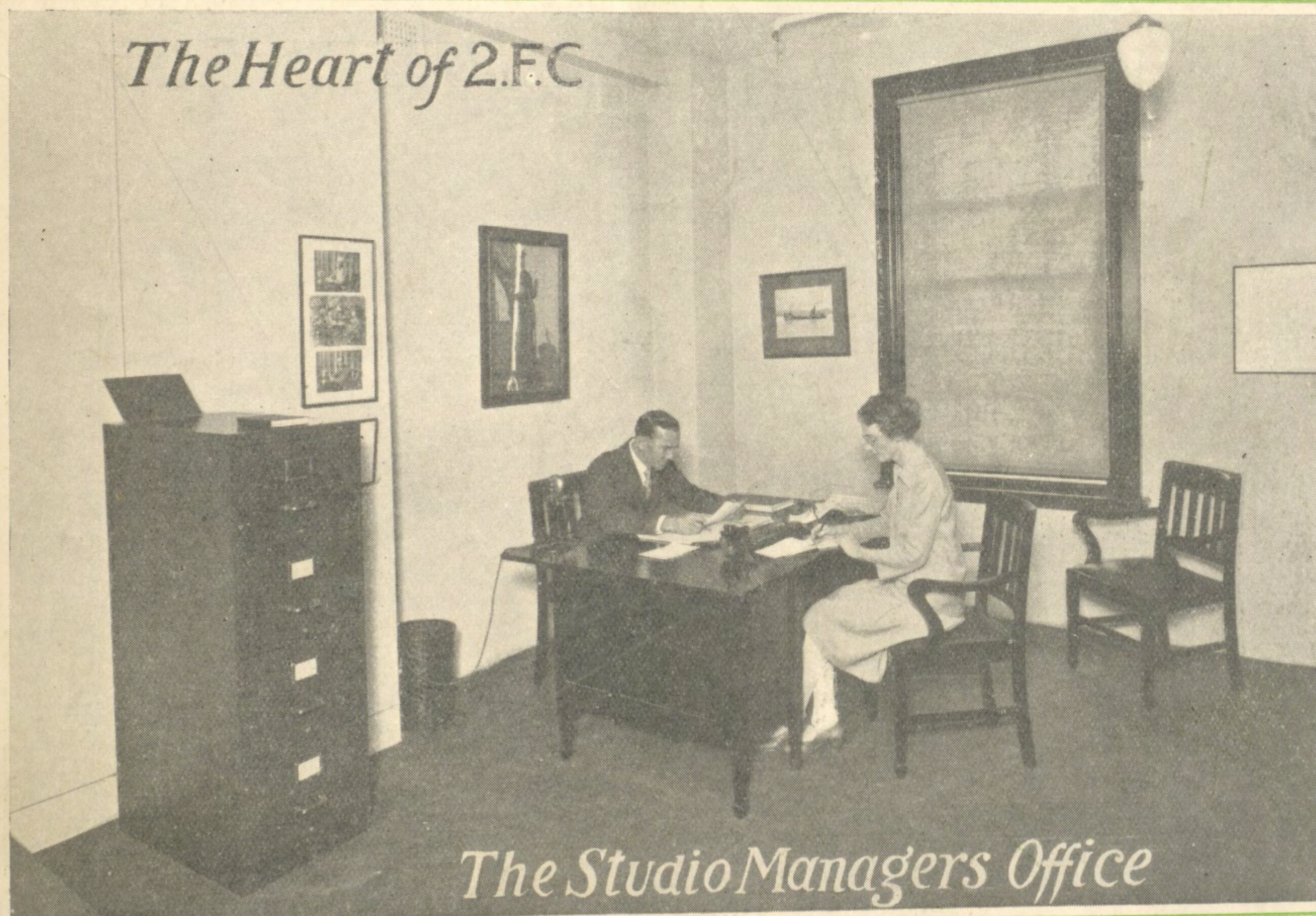
WIRELESS WEEKLY

Broadcast Programmes a Week in advance

VOLUME 12

Registered at the G.P.O., Sydney, for
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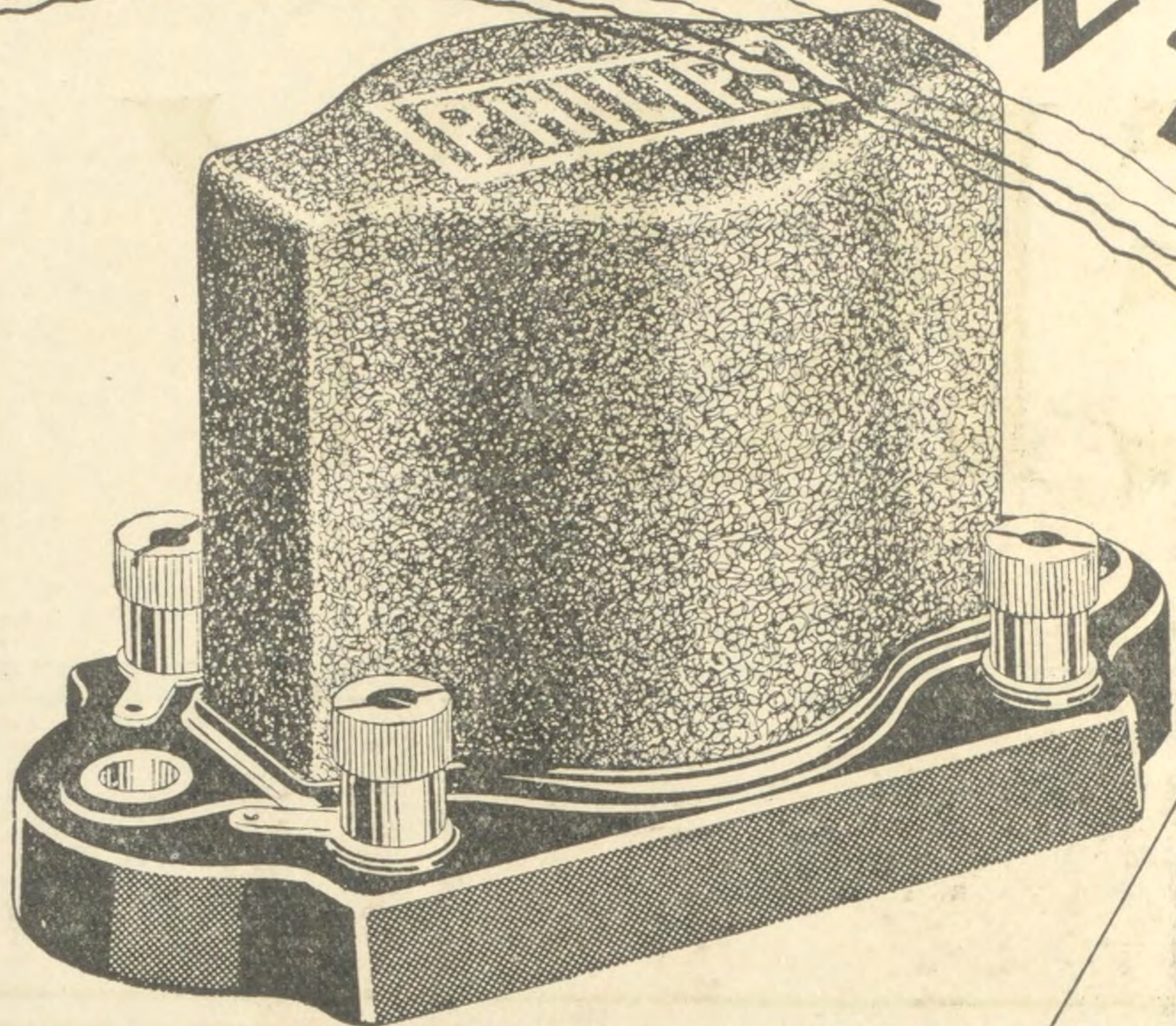
NUMBER 3



Friday, May 11, 1928

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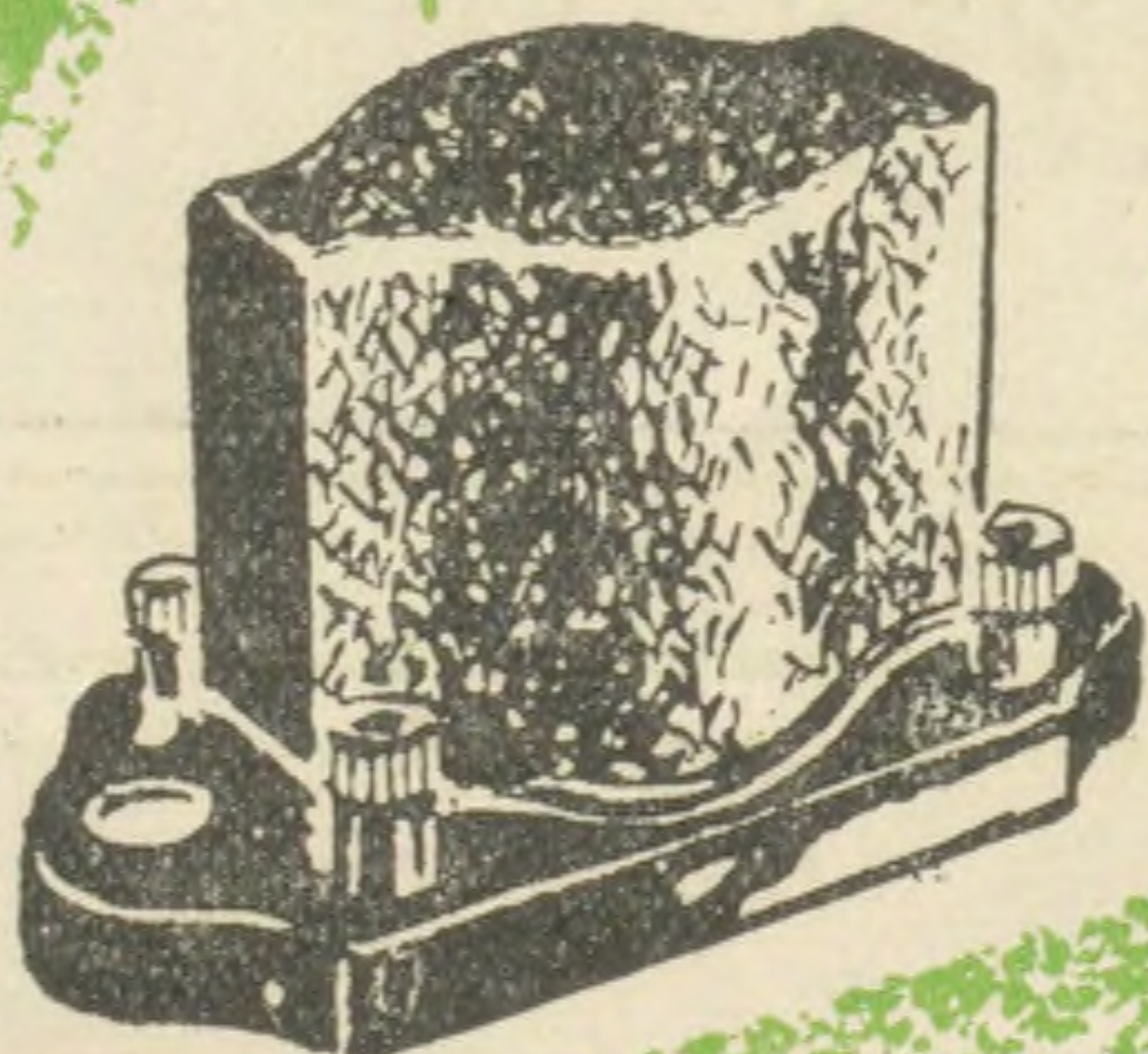
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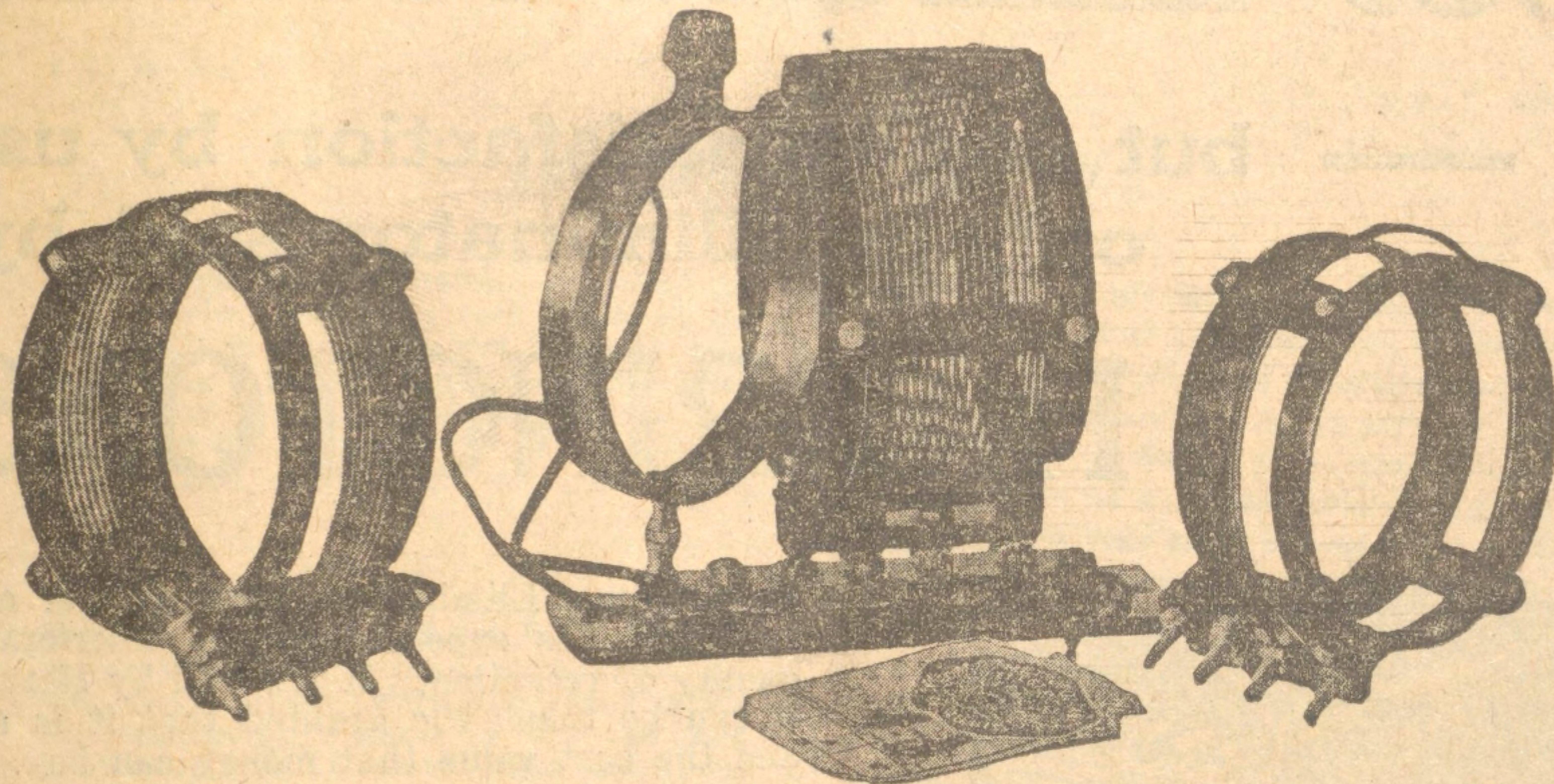
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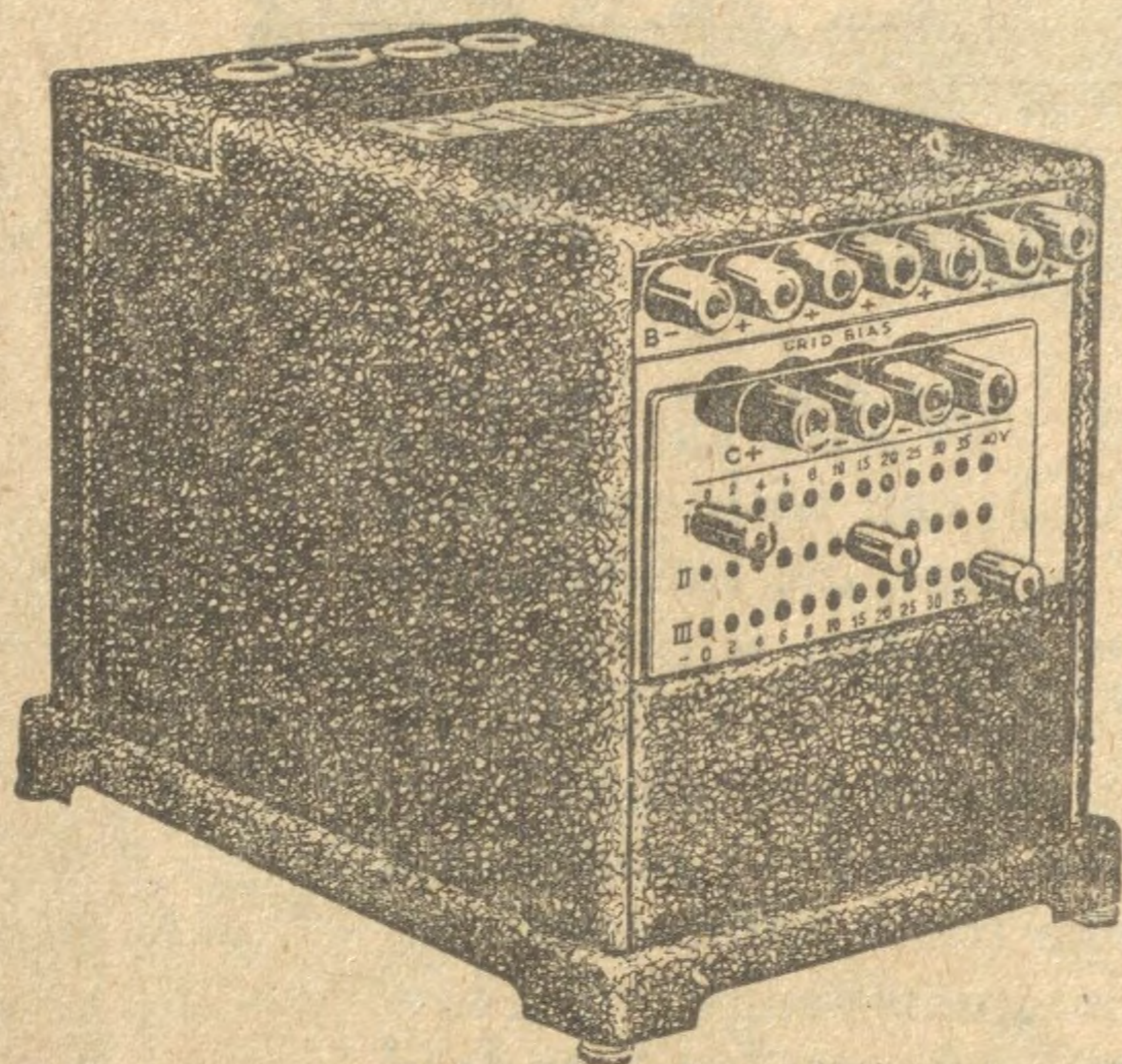
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WIRELESS WEEKLY

VOL. 12. No. 3.

FRIDAY, 11th MAY, 1928.

Television Still Far Off.

THE subject of television or seeing by wireless has been very much to the fore of late. Reports of some very interesting experiments have been circulated and some very optimistic anticipations regarding the future of the new method of transmission have been met in several quarters.

In America, the American Telegraph and Telephone Company and Mr. C. F. Jenkins; in England, Mr. J. K. Baird and in Germany, Mr. Mihaly of the Telefunken Company are the outstanding workers in this new and interesting field. Reports of demonstrations are likely to lead to the impression being formed that the days of seeing by wireless through some attachment to our broadcast receivers or through some somewhat similar apparatus are not far distant. These anticipations, however, have received a nasty shock by technical writers in the English publication, "Popular Wireless." That paper recently challenged Mr. Baird to demonstrate his system and backed up their challenge by £1000, but apparently it was not accepted.

They also recently published the opinions of a prominent scientist, Dr. J. H. T. Roberts, who has been engaged in scientific research for over ten years with conspicuous success, having collaborated with some of the leading scientists in the world such as J. J. Thomson and Sir E. Rutherford. It is stated that the opinions of Dr. Roberts are of considerable value. His opinions are far from encouraging to people who are expecting satisfaction from television in the near future. He mentions that "the step from the transmission of a simple object, such as a face, which occupies virtually the whole of the picture to the transmission of a view of a distant scene or the interior of a room, or to the transmission of a face in any close detail is a step of enormous diffi-

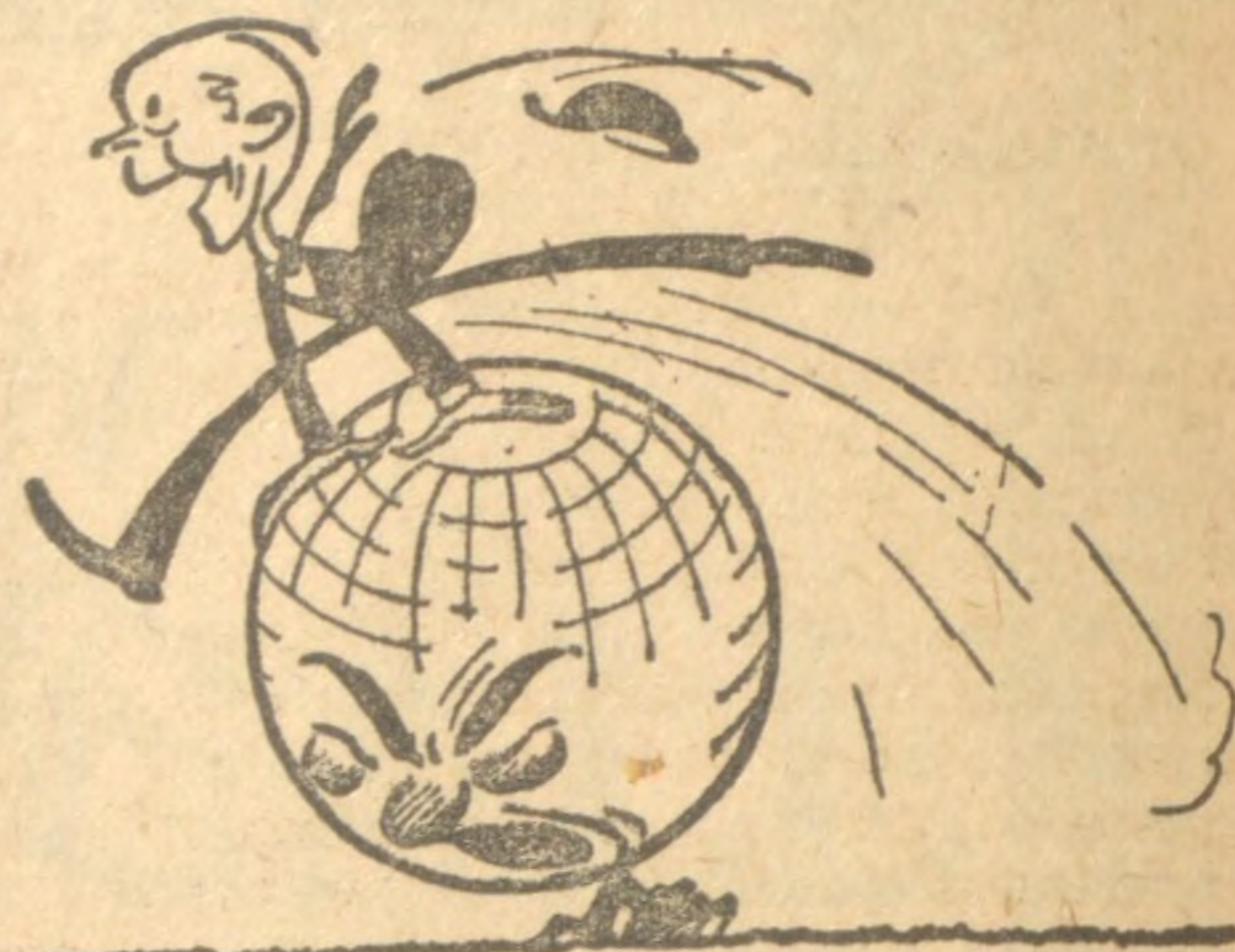
culty." He states further, "it seems to me that the technical difficulties (of transmission and reproduction of something equal to or even comparable with an early cinema show) are so enormous as to constitute as near as may be an insuperable obstacle to any progress very much beyond the present achievement, unless some totally new principle or system be discovered."

In careful detail he supports this pessimistic opinion by an explanation of the difficulties, and says finally, "so far as I am concerned I can only say, that, if any one can reproduce by television, moving pictures even remotely comparable with those shown by the present-day cinema, and if they can do this within the next ten years, they will have accomplished something which is entirely beyond my humble expectation, or the expectation of any of the distinguished scientific friends with whom I have ever discussed this matter."

We must, therefore conclude, that we are a long way off the time when we will be able to see an artist at 3LO Melbourne, while we are listening to her. Probably some minor demonstrations of the broadcasting of pictures will be carried out in a year or so, but it is well for optimistic listeners to be reminded that the art of broadcasting moving pictures, particularly of indoor scenes or large outdoor scenes, cannot be expected to be successful for some years to come. All we can do is to wish the inventors and research workers success in their experiments.

Catching Up with the Wireless World.

By R. E. CORDER.



MR. LARN CHRISTENSEN, who occupied the Isle of Bouvet in the Southern Arctic Sea on behalf of Norway—which occupation is not recognised by the English Government—has determined to build on this isle a wireless station at his own expense. The station will broadcast meteorological reports.

Mr. Herriot, the French President of the Board of Education, has nominated a committee to investigate how far wireless can be used for public schools, what kind of transmissions are conducted to this end, and at what hours such transmissions could be given best.

UNCLE BAS WAS SCRATCHING his head thoughtfully. "Cecilia," he murmured. "No!" said Uncle Peter, firmly; "that won't do; it's a girl's name." Then catching sight of me—"What's a girl's name that also suits a boy?" "Ophelia?" I offered helpfully. It appeared that Uncle Bas and Uncle Peter had run out of names for which youthful pet admirers were clamouring in order to christen their animals, and it was necessary in future to use names that suited both sexes, as, unfortunately, they had named a cat Juliet, and afterwards found out that it did not quite suit the animal's sex, so the name was altered to Romeo!

WHILE THE PARIS CAFE ORCHESTRA was providing its usual lunch hour music for 4QG recently, the engineer at the station requested the operator at the Paris Cafe to "shoot the bloke with the whistle." The operator, on investigating, discovered the offender would be a hard man to shoot. It happened to be the "dogman" on the crane engaged in the construction of the New South Wales Bank, situated about two hundred feet away from the microphone. The microphone used by broadcasting stations is constructed to such a degree of sensitiveness that it will detect almost any sound audible to the human ear, thus the "dogman" and his whistle unconsciously provided an unwanted obligato to the Paris Orchestra.

"MURDER! at 8.30 sharp" reads a story in a Sydney paper. Just what I thought when I read in the programmes: "Madame Higgsbottom, soprano, 8.30!"

IN CONNECTION with a scheme for the investigation of the upper atmosphere now being carried out by the University of Queensland, the authorities at that institution intend liberating from time to time small balloons filled with hydrogen. These balloons will rise to a height of from 10 to 15 miles and then, after bursting, will fall slowly to the ground.

A POSTCARD will be attached to each balloon asking the finder to fill in particulars as to where found, etc., and then return it to the University. The balloons may fall within a radius of 50 miles of Brisbane or may go further afield. The success of the experiment depends upon the number of cards returned and in order to acquaint as many people as possible with full information, 4QG is broadcasting from time to time statements regarding the liberation of these balloons.

MR. WINSTON CHURCHILL, Chancellor of the Exchequer of the British Government, was heard speaking over the air through broadcasting station 2FC Sydney last Thursday morning. Mr. Churchill was speaking from the London station 2LO and was explaining to listeners details of the British Budget. His words were broadcast to Australia by the short-wave station at Chelmsford and were picked up by station 2FC and re-radiated for Australian listeners to hear. Recently, Mr. David Lloyd George was heard from the Sydney station when he was addressing a meeting in Wales. Mr. Churchill, though not such a picturesque orator as Mr. Lloyd George, impressed Australian listeners as a man of forcible delivery. A number of listeners telephoned 2FC stating that they heard Mr. Churchill as clearly as they would hear a speaker from a local station.

THE EFFICIENCY of the Beam Wireless Service of Amalgamated Wireless (A/sia), Ltd., is daily winning the support of more business houses, with the result that traffic returns show a very satisfactory increase in all directions.

IN A VERY short time a permanent Beam service between Australia and Canada will be established. In the course of the experimental transmissions it appeared that a permanent connection could be obtained during the period of from 18 to 22 hours a day.

AN INTERESTING feature of the company's receiving office at Melbourne, of which there is one at the Beam Wireless Telegraph Office, Queen-street, Melbourne, and a branch accepting office at Collins House, Collins-street, is that all messages are passed between these two buildings by means of a pneumatic tube, approximately 300 yards long and running in a tunnel. The transit time of the carriers to Collins House is one minute, and to the Beam Wireless Operating Room at Queen-street, 1½ minutes. The difference in time is accounted for by the fact that the elevation of the Queen-street office is about 50 feet above the Collins-street office elevation.

MAURICE DUDLEY, the ever-popular "Billy Bunny," at 3LO, received from one of his many little friends recently, a beautiful snake skin, a strange gift many will say, because one cannot imagine "Billy Bunny" with snake skin shoes or belt. However, it was sent for a special purpose. Mr. Dudley's admirer asked him to put it down Mary Gumleaf's back if she got too "cheeky" at any time, but we think that it will never be used for such a creepy, cold-blooded purpose, because the demure Mary Gumleaf is never cheeky—to "Billy Bunny"—although she often gives much provocation.

IS YOUR LETTER HERE?

QUAINT! 2FC'S FOREIGN LISTENERS.

"Dear Sirs,—To-day I have heard your station broadcasting on a wavelength of 28 metres very satisfactorily from 10.30 to 11.30 G.M.T. At 11.30 the music broke sudden off. In the begin the music was very clear and loud, and the modulation perfect. Later at the speech there was a rattling noise but the spoken words could be understood good. Then after the speech was the music, good, but stopped sudden at 11.30. The strength was about R8 to R9. QRN and QSS a little. QRM from a telegraph station but not very hard. My radio set is 1 detect, and 2 L.fre. I am sorry you are not regular transmitting on the short wavelength because on the long wave your station can seldom be heard.

Yours faithfully,
(Sgd.) C. M. MEIJER."

Sugar Factory Panggoong Radjo,
By Kepandjen. MALANG.
JAVA NETHERL, EAST INDIA.

OLD FRIEND.

"Dear Sirs,—Enclosed please find letter for Mr. Christian Hellerman. You were rebroadcasting an Organ Recital by him yesterday. He was an old friend of mine, quite a number of years ago, and I entirely lost sight of him."

M. M. COHEN,

Manildra."

"Dear Sir,—There is one thing I should like to know, and that is the name of the man who whispers during the programmes from your station on certain nights," writes a young lady from Brisbane.

Every morning "Mike" receives these letters, and advises the writers that his full name is "Mike" Smith, the only talking microphone in the world, but still listeners don't seem to believe it, although he has had his photograph published in "Wireless Weekly" with Mr. Cochrane, the "Hello Man" of 2FC.

MAIL THAT IS TREASURED BY 2BL.

MANY of 2BL's letters will never be published. They are for the eyes of the announcer alone. 2BL have a special Hospital Session, and many heartrending letters are received from the little ones, from torn Diggers, and from old people. The Diggers all delight in a good Australian fighting spirit, and all sport is eagerly followed by them.

Imagine yourself crippled, or blind—day after day, week after week, and year after year having to do nothing but wait for the inevitable end. Would you lose courage? Diggers don't anyway, as this letter shows:

"Gentlemen,—On behalf of the Diggers, who are patients of Ward 13, I am delighted to convey to you our gratitude and keen appreciation for the vast amount of pleasure conveyed to us each Saturday night per medium of your kindness in broadcasting (particularly for our gratification) the details of the various contests staged by Stadiums, Ltd.

"We desire also, that you would, please, convey to Stadiums, Ltd., our appreciation of their kindness in permitting you the privilege to broadcast for our pleasure. I venture to say that you good people cannot adequately perceive the great pleasure you convey to us by your kindness.

"Every Digger with sufficient strength never fails to don the ear-phones to hear Uncle Bass describe these combats, and we all participate in the pleasure afforded by your thoughtfulness.

"By writing thus, I feel assured the sentiments of all Diggers in the hospital who are privileged to listen-in are duly expressed and reciprocated.

"Thanking you again and again on behalf of the boys,

"Yours afithfully,

"(Sgd.) GEO. S. MACGRAW,

"1st A.F.A."

Underneath the letter appears a post-script: "Please excuse writing—a little bit shakey."

This Digger, just one of many, lies at the Prince of Wales Hospital, Randwick.

DEATH OF MR. G. POW.

It will come as a shock to his many friends engaged in wireless activities to learn that Mr. Pow died in Melbourne on the 1st May.

Mr. Pow entered the wireless profession in October, 1915, joining the Marine Wireless Services of Amalgamated Wireless (A/sia), Ltd.

During the War he proceeded to Japan to instal a wireless installation on one of the ships being built in the Japanese dockyards for the British Government, and on his return, served in many vessels travelling to various parts of the world. In April, 1927, he was appointed a sub-inspector, and later took up the position of A.W.A. Marine Inspector at Melbourne, a position he held at the time of his death.

He is survived by a wife and young son.

CHURCH SERVICES APPRECIATED.

Many letters have been received from readers regarding the various merits and otherwise of broadcast church services. 2BL receive a huge mail every week thanking them for these broadcasts, and the following letter is just one sample of many hundreds written in the same strain.

"My Dear Radio Friends,—As friends I feel we are already by listening-in to your morning and evening sessions from 2BL. Your children's sessions are not only interesting, but perfection. I trust you and your grand staff will be spared many years in order that you may still spread the good advice and sunshine into thousands of hearts as you are doing to-day. My son Jim loves to hear you on the air always, but he cannot hear your services broadcast on Sundays, because his is one of the little voices whom you broadcast with Mr. Massie, at the Newtown Congregational Church. We all think Mr. Massie is wonderful, and we always keep our eyes on the batteries and see that they are full charged when his services are being broadcast. We all enjoy your studio programmes very much—they seem to come through so clearly in this district.

"We are not altogether new to 2BL—my little boy, who is 13 years of age, played the piano for your station when he was eleven years old. The announcer on duty that night was our good friend who I believe went to New Zealand, and as Jim has been operated on and been in bed for just on a week now, I wish you could find time and room on your big list to give him a call next Saturday night, 25th February. This will be a great surprise to him, as he knows nothing about this appeal on your valuable time. Wishing you all many more years of success upon success.

"I will remain your earnest well-wisher,

"(Sgd.) MR. R. H. WILLIAMS."

"I WONDER if Miss Jordan would repeat the sweet recipe for Marzipan, please," writes a listener to 2BL. "I missed it last time when the grocer called. He used to come on Friday mornings, but if you were on the air he just had to leave the groceries and get paid next time, so he changed to the afternoon, and meets with the same fate if Miss Jordan is talking. I will soon have him trained to come between 2 and 3 o'clock. He says I soon ought to be able to take a position as chef at the Australia, for I am always copying recipes when he calls."

At the Official Opening



The general offices at 2FC, where the staff is quartered. It is here that the large correspondence received and sent out by the station is handled. Extensive and comprehensive filing systems are in use.



The control room at 2FC, showing the unique and vastly intricate panel system. From this panel is controlled all the various outside relays, including country programmes, land recitals, theatres, etc. Individual control of each of the half-dozen microphones in the three studios is also possible from this panel. The chief engineer, Mr. Burbury, is seen standing.

GAY flags and greenery decorated the approach to the new studio of 2FC, Limited, on Monday, 30th April, on the occasion of the official opening by his Excellency the Governor, Sir Dudley de Chair.

It was a gala night for the station, which, in five years, has attained broadcasting supremacy. Over 200 guests were present, and through cleverly concealed loud speakers, the visitors in one studio were entertained with items broadcast from the studio adjacent. An announcer was seated at the specially constructed table in each studio, at which there is a microphone control which enabled him to switch off the microphone before him after an announcement has been made and switch on the microphone which transmits the item to be performed. An electric indicator gives silent instructions to artists—"Louder," "Softer," "Silence," during items. Of course, applause is permitted.

Messrs. Paling and Co. were entrusted with the important mission of selecting the instruments required. There are two "Fechstein" grands, a "Laffargue" electric reproducer, a piano for accompaniments and one for the rehearsal room. These are all tuned to C 517 Continental pitch, but there is a specially tuned "Behning" to C 540 for orchestral work.

The programme, which was broadcast by arrangement with Amalgamated Wireless (A/sia), Ltd., on the dual wave lengths of 442 and 28.5 metres, was opened by Mr. Lionel Lawson with Wieniawski's "Romance," accompanied by the 2FC studio orchestra under the baton of Mr. Horace Keats.

Greetings were sent to the sister States and international stations, followed by a description of the studios. The construction is old English style, and the dignified toning of the decorative scheme is strikingly effective. Torch lamps of the period and artistically shaded lights throw the blackened rafters into subdued relief, and the rich blue of the carpets is repeated with touches of gold in the hangings.

At 8.15 the Vice-Regal party arrived, and were welcomed by Mr. George Wright, chairman of directors of 2FC, Limited. Lady de Chair was presented with a bouquet of waratahs, tied with the colors of 2FC—brown and gold.

In officially opening the studios, his Excellency paid graceful tribute

of 2FC's New Studios.

to the work of the station, and the remarkable progress radio had made through its enterprise. "You are rightly acclaimed the pioneers of Empire broadcasting," he said. "You have forged yet another link with the Motherland, and in the mutual interests of this wonderful medium of communication you have created a world wide spirit of good fellowship."

A feature of the evening was the recital from the War Memorial Carillon at the University, by the English carillonist, Bryan Barker, which was followed by pianoforte solos by Lawrence Godfrey Smith.

Items were rendered by the Southern Choral Society, Melbourne, conducted by Mr. Graham Burgin. This is the first appearance of the society in N.S.W., and it is hoped listeners will have further opportunities of hearing their work, which is of high standard.

Faithful to the 2FC slogan, "Diversity," a group of numbers was transmitted from the Sydney Flute Club Rooms. The ensemble of twenty-five flutes, conducted by Mr. A. W. Arlom, in the "Allegro maestoso" from Fursteneau's Quartette was enthusiastically received.

Raymond Ellis, the eminent English baritone, who is making his farewell appearance prior to his return to London, was never heard to better advantage than in his exquisitely rendered group of old English songs, which included "Passing by," "Drink to me only," and Oley Speakes, "Sylvia" and his masterly rendering of "Largo al factotum" to the accompaniment of the orchestra was most impressive.

Edgar Warwick was assisted by Eileen Dawn in his atmospheric talk specially written for the occasion, entitled "The Voice of the Studio," and Charles Lawrence, old 2FC favorite, entertained his listeners in lighter voice.

At 11 o'clock there were short addresses by leading theatrical stars, and the programme concluded with dance music from the Ambassadors' orchestra, under the direction of Al. Hammet.

During the evening, the Governor, accompanied by Mr. Wright, inspected the control room. "I am struck with the ideal conditions under which your engineers pursue what must be extremely exacting work," he said. The room is lofty and airy, and possesses the advantage of natural light.

His Excellency examined the main board, a massive structure measur-



In the office of the publicity manager, Mr. H. P. Williams, who arranges many important programmes at 2FC.



Another view of the general offices at 2FC, showing a further extension of correspondence and programme compilation staff. The entrance to the new quarters is just to the left of the picture.

ing 10ft. x 12ft., handsomely encased in mahogany. Above it are elaborately framed charts and diagrams, and a comprehensive list of broadcasting lines for outside transmissions.

The panel is divided into four sections. "The first on the left is the amplifying panel," explained the chief engineer (Mr. E. A. Burbury), "and is rightly termed the pulse of the station. Thus we control the volume," and he gently turned the little black knob with the milled edge, not unlike the focus of opera glasses.

"And what part does that play?" asked his Excellency, nodding to the meter on top of the panel. "That is the indicator for volume control," returned Mr. Burbury. "When the hand passes two degrees, we anticipate trouble. For instance, a shrill whistle will overtax the microphone, and send the hand dancing over to the extreme right of the indicator." "With the result," prompted his Excellency. "Look out for those grid currents!" replied Mr. Burbury with a smile.

"The second panel is the mixing panel," he continued. "For example, with the aid of the switches this contains, it is possible to utilise several microphones when broadcasting an orchestra, and so adjust their relative strengths that each section of the orchestra is blended in its proper proportion. There is no overwhelming bass or piercing treble, but an even balance is maintained. In addition to studio work these switches control the strength in relaying transmissions from outside work."

Here a bell rang sharply. An assistant answered the call, and replied to Mr. Burbury's interrogation, "The line to Christchurch is all right." "That was a call from the mechanic testing the line," he explained. "It is his duty to test the various lines from what are termed 'outside shows' and report everything is in order. It generally is," he added naively.

"The tone control is what some humorist alluded to as the 'voice laundry.' It does actually iron out vocal creases—sharpens up speech which is too gruff for the microphone, and brings out the voice in vocal records which have full orchestral accompaniment.

"The third panel is for monitoring reception after the transmission leaves Pennant Hills. Here is the volume control for regulating the strength of the various loud speakers in the offices associated with the studios. Here" (indicating the bottom of the panel) "are 24 switches controlling the signalling lights in the two studios which give instruction to artists as to where they should stand, whether the accompaniment is too loud or too soft, etc.

"The fourth panel is the 200-number switchboard for connecting to the various outside points of transmission. This is unique, inasmuch as it is a complete exchange in itself. It could be lifted out bodily and installed in a town which could be served by 200 lines, without any

alteration to the construction as you see it there."

His Excellency congratulated Mr. Burbury on the construction by Amalgamated Wireless (A/sia), Ltd., of the control room. "It is an achievement of which the company can be justly proud," he said.

Relay Stations

By Billy T.

EVERYONE knows the story of the egg of doubtful integrity that was sent in to 3LO Melbourne with a request that they should relay it. Reception of programmes up country is, in some districts, undeniably like that discordant egg, and undoubtedly the remedy is the same in both cases. Relay stations would dish up the programmes before they were addled.

What is "Relaying"?

Many wise folk who write to the newspapers and talk in trains have but a hazy idea as to what a Relay Station really is, and does. As a matter of fact there is quite a good Relay Station actually in operation at 3LO Melbourne, at this very time. Whenever 3LO sends its microphones abroad to some distant racecourse or country town or, for that matter, even into its own studio adjacent to the Control Room, it picks up and relays the music, song or talk to Braybrook "where the Big Noise comes from." Hence in all essentials Braybrook is Relay Station Number One. If 3LO Melbourne chose to run a landline up to Ballarat and Bendigo, or were given permission to utilize existing P.O. lines for the same purpose continuously, and erected transmitting stations and aerials there, then they would be Relay Stations. The same could be done at Beechworth, Mildura, and other distant places. When Hinkler landed at Bundaberg there was quite a sheaf of Relay Stations across Australia.

Capital Stations!

It is not, however, usual to call Braybrook, for instance, a "Relay Station," because it is the principal or "Capital" station of 3LO Melbourne's Studio. Yet the principle is the same, whether the station that translates telephone wire currents into Wireless be big or small.

Land Lines Needed.

The only practicable method of relaying programmes is not to rebroadcast them by first receiving them on a wireless receiver, but to send them

along by landline to the selected sub-centre, and there treat them exactly as Braybrook treats what it gets by landline from the studio of 3LO Melbourne.

Local Transmissions.

A Relay Station is thus a replica of a big Broadcasting Station, and may, therefore, of course, be used for local transmissions whenever occasion arises. Hence it would only be a matter of policy how much of the principal programmes from the Melbourne Studio were to be modified by the interspersing of items of local interest from local sources.

Advantages.

The advent of properly equipped relays would add immeasurably to the utility and charm of Wireless in country life. It would probably double the present number of listeners even in Victoria, for it would cheapen wireless installations for miles around each Relay Station, establishing a large zone of crystal reception and putting even the outer zones where valves and loudspeakers are essential much more within the means of the average countrysider.

Policy of 3LO Melbourne.

Many months ago 3LO announced its policy to establish relay stations, but before they can be licensed by the Postmaster General's Department, many important details have to be settled. The question of wave lengths is perhaps one of the most difficult to overcome, for obviously relay stations must have separate wave lengths, and they must be separated widely enough so that each will not cause interference to or be interfered with by other stations. It is expected that the difficulties in the way of the establishment of relay stations will shortly be settled, and the stations established. Distant country listeners will then be able at all times to enjoy the efficient broadcast service which 3LO Melbourne provides, just as it is enjoyed in the Metropolis and nearby country districts.

New Features at 3LO

*Aerial Derby Description—Community Singing—Tour de France
Schubert Interlude—Organ Music.*

A DESCRIPTION by Lieut. Keith Gardiner of the thrilling Aerial Derby, to take place at the North Essendon Aerodrome on May 26th, will be broadcast by 3LO Melbourne.

MOTHERS whose boys are Scouts, and mothers who do not know how much good this big brotherhood can do their boys, will be interested in talks to be broadcast from 3LO by officials of the Boy Scouts' Association on the evening of Thursday, May 17.

THE OPENING by the Governor (Lord Somers) of the new hall for the Presbyterian Church Settlement in Napier Street, Fitzroy, on Saturday afternoon, May 19th, will be broadcast by 3LO Melbourne. The Moderator of the Presbyterian Church will also be a speaker.

Mr. F. E. DIXON will speak from 3LO Melbourne, on Tuesday night, May 15th, on the subject, "A Civic Centre for Melbourne." It is a question that is occupying considerable space in the press at the moment, and Mr. Dixon's observations should be of particular interest.

A FEATURE of Monday's programme at 3LO Melbourne, will be the concert by a singularly gifted quartette—Professor Bernard Heinze, Miss Elsie Davies (soprano), Mr. Stanley Tompkins and Mr. Elford Mack. Professor Heinze is arranging the programme, and that is sufficient guarantee of its quality.

LISTENERS are reminded that entries for the Free Holiday Trip to Buffalo will close at 12 noon on Saturday, May 26th, when the drawing will take place. All listeners are required to do is to send in name and address, together with the number of the licence to the wireless set by which they usually listen in. Address the envelope, "3LO Melbourne, off 120a Russell Street, Melbourne," and mark the envelope: "Buffalo for a Holiday."

TWO LUNCHEON-HOUR Community Singing Sessions are now broadcast weekly by 3LO Melbourne. On Mondays between 12.15 and 1.45 p.m., the transmissions are from the Assembly Hall, the arrangements and control of the programme being in the hands of 3LO, whilst on Thursdays the transmissions are from the New Town Hall, the programmes being arranged by the Community Singers' Association.



Commander Coxon, of the Dover Patrol, who spoke from 3LO recently. Commander Coxon supervised the transport of 1,000,000 officers and men of the allied armies across the English Channel during the war without the loss of a life.

THE WORKS of the composer, Schubert, will be featured in a special interlude in the 3LO programme on Thursday night, May 17th. The artists will be Miss Agnes Fortune (piano), Miss Mona Nugent (soloist), Miss Bertha Jorgensen (violin) and Mr. J. Howard King (soloist).

3LO MELBOURNE have completed most comprehensive arrangements to keep Australians and New Zealanders in touch with the progress of the world's great classic cycling event, "The Tour de France," which commences on June 17th and extends for a month, during which time the competitors will cover over 3000 miles. Australians and New Zealanders are particularly interested in this event, as their countries are represented by Hubert Opperman (Victoria), A. Osborne (Victoria), E. Bainbridge (Victoria), and Harry Watson (New Zealand). 3LO Melbourne have sent a special representative—Mr. Bruce Small—with the team. Apart from the transmission of progress reports on their regular wave length of 371 metres, 3LO Melbourne will broadcast reports every Monday morning between 4.30 to 6.30 (corresponding to 18.30 to 20.30 G.M.T., Sunday).

3LO MELBOURNE will broadcast the Tivoli programme for an hour on the night of Friday, May 18. This should be a particularly bright Friday night feature.

MANY MELBOURNE theatre-goers have already made the acquaintance of "The Girl Friend," the catchy new musical comedy at the Theatre Royal. All Australians can do so by listening in to 3LO on Monday night, May 14th, when the whole of the first act will be broadcast from the theatre. As the singing is one of the biggest hits of the show, listeners should find the introduction a very happy one.

THE MELBOURNE Choral Union has been engaged by 3LO for a series of concerts during the winter months. The choir consists of 60 voices, and the conductor is Mr. William G. James. It will broadcast its first concert towards the end of May. A definite announcement will be made shortly.

A CONCERT of over an hour's duration will be provided by musical and elocutionary artists from the Victorian Institute for the Blind on Wednesday night, May 16, and broadcast from 3LO. There will be songs, concerted and solo, and humorous interludes. It should be bright entertainment.

ORGAN MUSIC might have been specially made for broadcasting, so beautiful does it sound over wireless. 3LO has pleasure in announcing that two recitals will be given by Mr. C. E. Monteith during the week beginning on Sunday, May 13. On the evening of Monday, May 14th, Mr. Monteith will play the incidental music written by Mendelssohn for Shakespeare's "Midsummer Night's Dream." Listeners should not miss this treat. Mr. Monteith will broadcast another organ recital on Friday, May 18.

HUNDREDS of children in Melbourne are looking forward as to a big treat, to Tuesday, May 15th, for on that evening they will take part in "Bobby Bluegum's" big community singing item at 3LO. All those happy children who listen in to 3LO's Children's Hour talks can take part. Last time "Bobby Bluegum" had one of these delightful gatherings more than 100 little ones were there, and the singing was heard throughout Australia. And it was such fun! Now there is going to be another big community singing, all for the children. Roll up, children, on Tuesday evening, May 15.

MUSIC LOVERS will be interested to learn that on May 17th, a special Schubert evening has been arranged by 3LO Melbourne, in conjunction with the Parents' National Educational Union, the music of Schubert having been selected for study during the first Term. Artists contributing to a carefully selected programme will be Agnes Fortune (Piano) Bertha Jorgensen (Violin), Miss Mona Nugent, Winner of the 3LO Vocal Exhibition, (Soprano) and J. Howard King (Bass Baritone), whilst Agnes Fortune and Bertha Jorgensen will also be heard in instrumental duets.

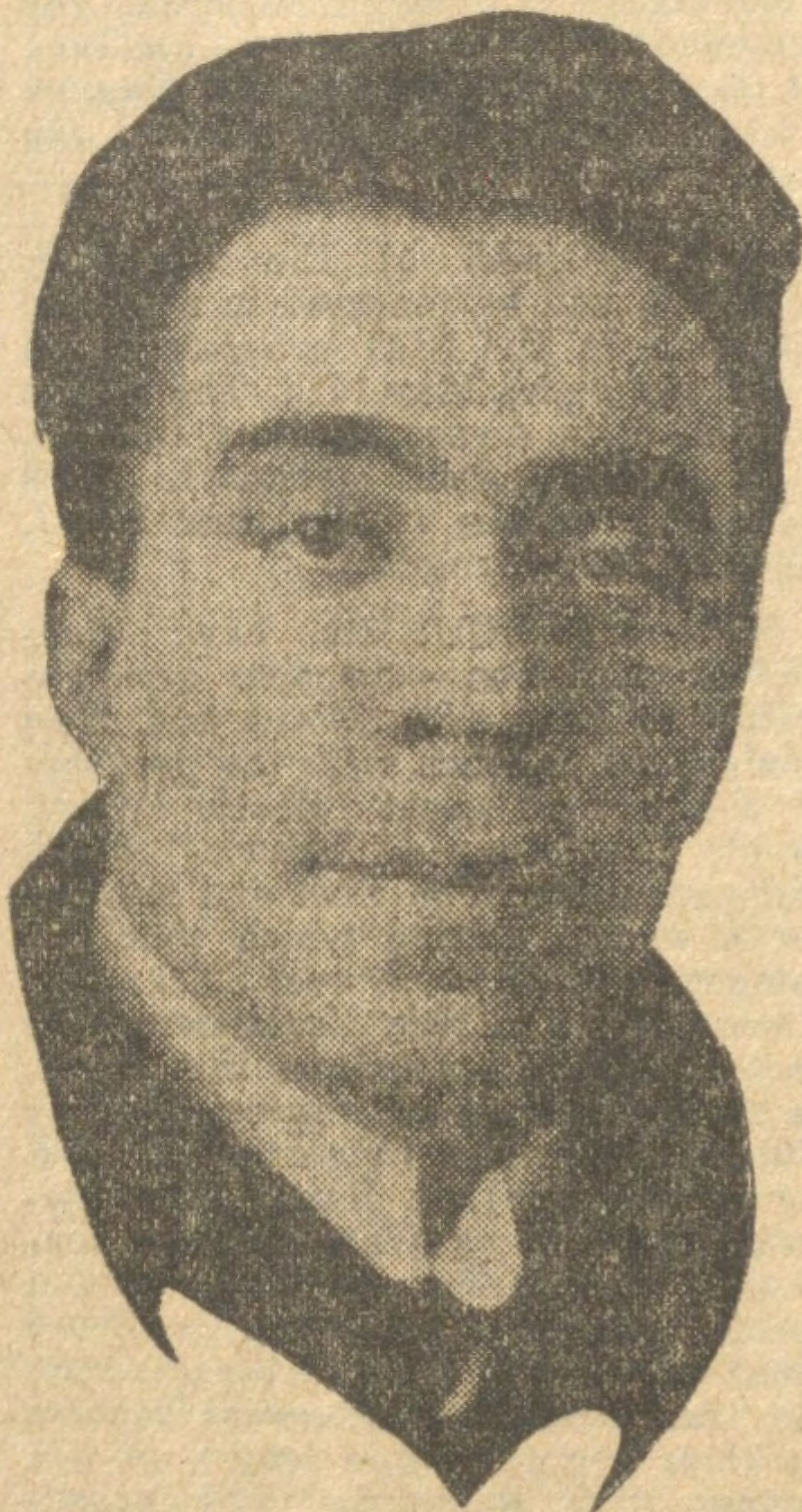
LISTENERS will be interested to learn that Jack O'Hagan, the popular vocalist and song writer, has joined forces with the Vagabonds, and will broadcast with them in a series of programmes from 3LO Melbourne. Following the American custom of singing the last verse or chorus of a vocal waltz or fox trot with the orchestra. Mr. O'Hagan with his pleasing baritone voice, is admirably adapted for this type of vocal entertainment, especially if it happens, as so often is the case, to be one of his own popular compositions.

BY THE TIME these few lines get into print, everybody will be eagerly waiting for the weekly dance lesson that is being broadcast by Miss K. Lascelles from 3LO, and many young people in the back blocks, who hitherto despaired of ever learning to master the intricate steps of the Yale Blues and the Heebie Jeebies, are now in their element and are carefully following the minute and extremely lucid instructions given over the air by this talented and popular Melbourne dancing mistress. Not only has Miss Lascelles travelled extensively, and completed her studies under the best English and Continental experts, but is constantly in touch with the "other side" so that we may rest assured, that, not only are we getting the very best, but the very latest instruction in the light fantastic.

WE HAVE all heard about the Village Concerts that are held in the Old Country, when the Dutcher, baker and the candlestick maker, contribute to the programme, the local Parson acts as chairman, and the Village Idiot makes a conspicuous ass of himself. On May 18th Listeners will be taken to one of these concerts by Rupert Hazell, who, during his many years before the English public, specialised in this particular form of entertainment. We will be introduced to the local lads of the village who will do their best to entertain, instruct and amuse, hear the speeches broadcast by the rustic celebrities, and listen to words of wisdom from the Village Idiot. Needless to say, this role will be taken by Rupert himself, and, as he says, "the part fits him like a glove."

A **NOVEL** and instructive feature has been introduced into the programmes from Studio 3LO Melbourne, and, under the title of "Out of the Past" the chief events of the Great War will be described, among which will be "The Advance and Retreat from Mons," "The Historic Landing at Gallipoli," "The Blockade at Zeebrugge," and the "Sinking of the German Battleships at Scapa Flow." This series is timed to commence at 8 o'clock, whilst at 8.15 will follow another instructive series, dealing with Makers of History, during which famous historians, poets, musicians and artists will be discussed, their work outlined, and the direct influence and help they have been to the progress of the British Nation will be explained.

A **NEW FEATURE** during the winter months will be camp fire concerts broadcast by Boy Scout Troops in the metropolitan area. The troops will enter into friendly competition in providing these concerts, as only Boy Scouts can. The competition will be opened on the night of Tuesday, May 15th, when the 1st Otway Forresters will be on the air. On Wednesday night, the 1st Collingwood Troop will broadcast. On Friday night the Albert Park Sea Scouts will broadcast, and on Saturday night the 1st Elsternwick Troop, St. Clement's, will give their concert. Boy Scouts are numbered among the most enthusiastic listeners and wireless fans. This competition should appeal very strongly to them.



Henri Penn, the distinguished pianist who is broadcasting from 3LO.

FEELING that if the mothers only knew a little more about the various movements that are afoot to help the young people, more children would be permitted to join such splendid organisations as the Girl Guides and Boy Scouts (to mention but two), 3LO Melbourne has arranged for a special series of talks to be given to mothers during the Women's Hour. Dealing with the Girl Guides, Mrs. Ewan Littlejohn, who is greatly interested in the Ivanhoe Guides, will give a talk to mothers on this subject, explaining the aims and objects of the movement, discussing the subjects that are taught, and generally emphasising the fact that every young girl, who is to be a good citizen, should become a Guide. Dealing with the Boy Scout movement, Dr. McAdam will contribute a talk during the Women's Hour, thus enabling parents to have a wider knowledge of these two universal movements.

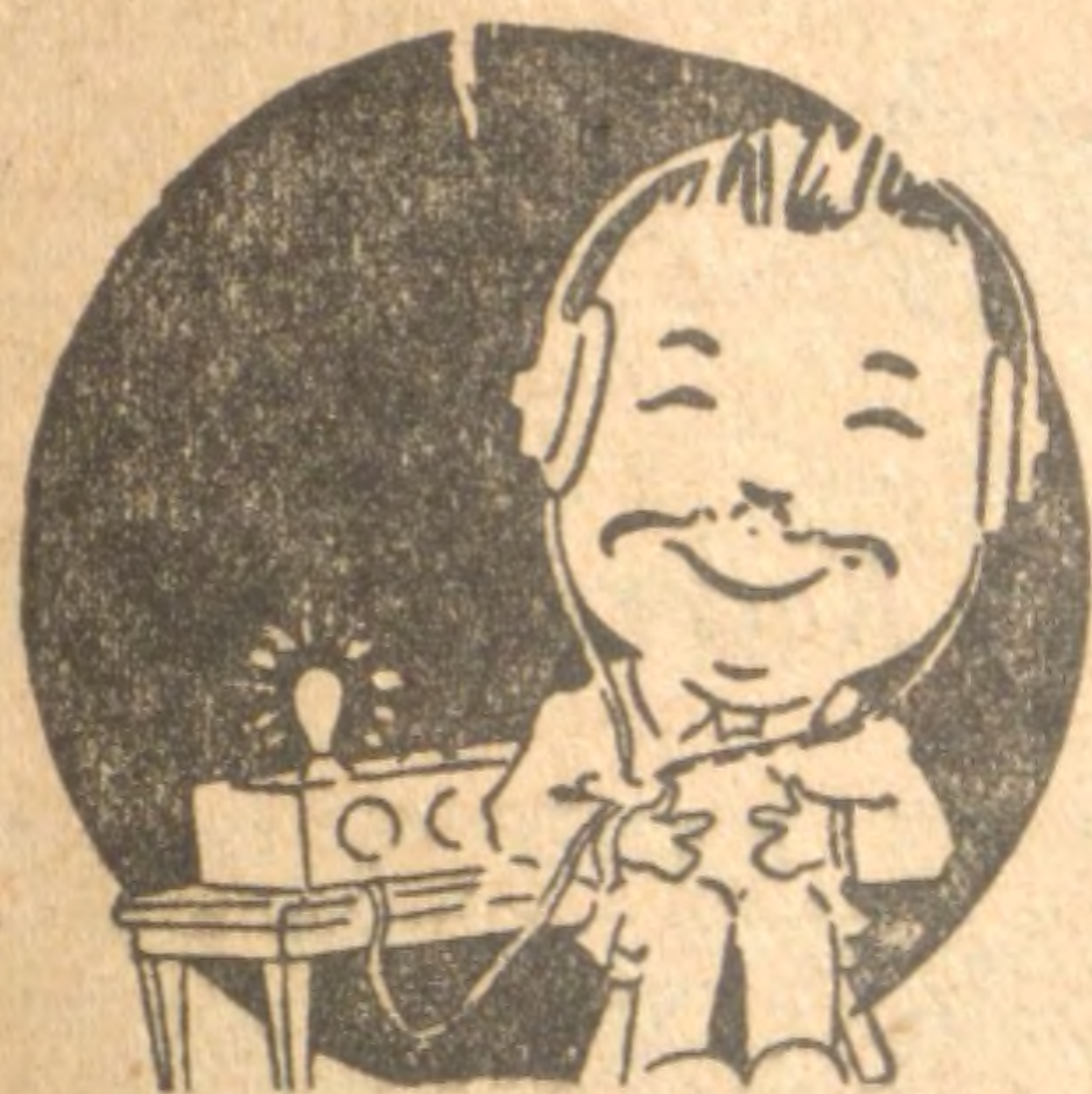
THE SUNDAY afternoon Sonora concert, broadcast from 3LO, should be particularly good on Sunday, May 13. Such famous artists as Galli Curci, Enrico Caruso, John McCormack and Evan Williams will be heard, and those who have learnt the wonders of broadcast gramophone records will realise what a treat is in store for them.

It is a fact that, when broadcast, gramophone records acquire a richness of tone which must be heard to be believed.

Also on the same programme will be an organ recital by Dr. Harold Darke.

For an hour these Sonora concerts entertain listeners on Sunday afternoons, and they have become an indispensable part of the programme. The items set down for Sunday, May 13, should further enhance their popularity.

ON MAY 16TH, a musical programme of special interest will be broadcast from Studio 3LO Melbourne, by the Concert Party from the Royal Victorian Institute for the Blind, under the direction of the Secretary, Mr. Hedger. It is not generally known that music forms a part of the education of each inmate of the institution, and when any particular gift is shown in this direction, neither pains nor expense are spared in order to perfect the musical education. Many of the inmates of the Institute are Winners of scholarships and exhibitions, and the members of the Blind Orchestra (which is self supporting and is in constant request for dances and concerts) have all received their training at the Institute. Contributing to the very excellent programme, will be Mr. George Findlay, the Blind Pianist, who, it will be remembered, successfully carried off the 3LO Exhibition some little time ago, and who is now making rapid strides in his chosen profession.



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.

INTERFERENCE AGAIN.

Dear Sir,—Re Mr. H. J. Parker's letter of the 20th inst. I quite agree with him, for I have never been interfered with by a ship while tuned into a broadcast station the five years I have been listening in at my residence at Kirribilli. May I say that 2FC is a low class station? It always plays the one side of its gramophone records twice in succession. Why? Are they too lazy to turn the record over, or what? I am sure I do not know. If 2FC followed out some of 2BL's habits, it would be an ideal station just as 2BL is. I would also like to wish 2BL success with their short wave transmitter, which, I believe, is to come into operation in a few months time.

2BL, being Australia's best broadcasting station, I think it would be a good idea if it continued its evenings till midnight two nights a week, say Wednesday and Dance night, and also Sunday night till 11 p.m.

Yours, etc.,
H. P. TOM.

Kirribilli.

THE SHIP'S OP.

Dear Sir,—As an old "brasspounder" I'd like to mention that the general opinion held by the public of our job is rather on the off side. So much has been written about the dramatic side of a radio-operator's life, that the public is inclined to believe he is a glorious hero. Aboard ship, however, he is not so regarded, and often is the object of so much "joshing."

This is more or less due to the fact that he is younger than the rest of the ship's officers—that his is a "white collar" job, and that he is, in nearly every case, a good natured, likeable chap.

When a newly made "op" goes aboard his first ship with a snow-white license clutched proudly in one hand, word is passed along, and our young hero falls in for a hectic trip. If he looks particularly young and unsophisticated, he may be greeted affably by the first mate, who casually mentions that, of course, the operator must realise that, in addition to his radio duties, which are in reality very light, he will be obliged

to oil and maintain the generators, and keep the ship's switchboard polished. If he is as naive as he looks, he will just gulp and answer, "Yes, Sir!" The chief engineer, who has been let in the joke will later appear and hand the new "op" a pot of grease, and bid him get to work. It is usually several days of this kind of thing that makes him wonder, and finally see that he is being hoaxed—meanwhile, he has been assigned brass polishing jobs, etc. However, he will soon find that he is an officer himself—and to those new "ops" who think of ships, I bid them beware of the "mail-buoy" and other old hoaxes.

Yours, etc.,
TAPADEKEY.

Kirribilli.

SCHENECTADY SHORT WAVES.

Dear Sir,—I have just received a schedule from an American friend of mine which gives the Schenectady times of transmission, and as two of your readers were asking for them recently, perhaps they may be of general interest.

Special features and events not occurring within the normal periods of transmission given below, such as speeches by internationally known men, portions of important conventions, boxing matches, world series, baseball games, etc., that are deemed of international interest are transmitted either through 2XAD or 2XAF, or both.

In addition to the foregoing, 2XAF also relays the regular "evening" programmes of WGY on Mondays, Tuesdays, Thursdays, and Saturdays, and 2XAD is relaying WGY on Wednesdays, Fridays, and Saturdays. These relays commence about 11 p.m. G.M.T.

| Station. | Wavelength. | Day. | (G.M.T.). |
|----------|--------------|-----------|-----------|
| 2 XAD | 21.96 metres | Sunday | 2330-0400 |
| 2 XAD | 21.96 " | Monday | 1900-2100 |
| 2 XAF | 31.4 " | Monday | 2300-0400 |
| 2 XAF | 31.4 " | Tuesday | 2300-0500 |
| 2 XAD | 21.96 " | Wednesday | 2300-0400 |
| 2 XAD | 21.96 " | Thursday | 1900-2100 |
| 2 XAF | 31.4 " | Thursday | 2300-0500 |
| 2 XAD | 21.96 " | Friday | 2300-0400 |
| 2 XAF | 31.4 " | Saturday | 2330-0500 |

J. FURLOUGH.

Zetland.

N.Z. STATIONS.

Dear Sir,—In April 6th issue of your paper appears an account of the broadcasting stations in N.Z., and, asking your pardon for doing so, I am sending you a more correct list of the main stations, and their hours of transmission, and also a list of the smaller transmitters, with their hours as near as I can say at present.

1YA, Auckland, 333 metres, 500 Watts, 3.0 to 4.30, and 6.0 to 10.0 p.m.—11 p.m. Saturday nights. Silent night, Monday. Sunday 3.0 to 4.30; 6.0 to 9.30.

2YA, Wellington, 420 metres, 5,000 Watts, 3 to 5; 6 to 10 p.m. 11 p.m. Saturday. Sunday, 6 to 9.30 p.m. approx. Silent night, Wednesday.

3YA, Christchurch, 306 metres, 500 Watts, 3 to 4.30; 6 to 10 p.m. Saturday to 11 p.m. Sunday, 5.30 to 9.30 p.m. approx. Silent night, Tuesday.

4YA, Dunedin, 463 metres, 750 Watts (input), 3 to 4.30; 6 to 10 p.m. Saturday to 11 p.m. Sunday, 5.30 to 9.30 p.m. approx. Silent days, Monday and Wednesday.

These four stations are owned and operated by the Radio Broadcasting Co. of N.Z., Ltd.

1ZB—275 metres, Auckland.

1ZQ—330 metres.

2ZF—278 metres, Palmerston North.

2AK—Experimenting, Taihape.

2YM—260 metres, Gisborne.

3ZC—250 metres, Christchurch.

4AK—252 metres.

4ZB—300 metres, Dunedin.

The power and hours of transmission of these latter small stations are uncertain, but will supply you with a list if you wish.

2YK is the old Wellington station, and is not in existence now.

Hoping you will forgive me for correcting you, and wishing your paper every success, I remain,

Faithfully yours,
Picton, N.Z. N. C. WINSTANLEY.

WELL, WE HAVE.

Dear Sir,—Don't you agree with me in the following facts:—The programmes are rotten, the artists are rotten, wireless is punk, television is worse—and—Don't believe a word of what I say. Am just curious (like most of your Safety Valve Contributors) to see if you will publish this.

Yours, etc.,
DUNNO.

Yea.

2BL Broadcasts

Carillon Transmissions—Wrestling Descriptions—Kurri Kurri Eisteddfod

THE JAPANESE BASEBALL TEAM, who are to visit Australia in June, will play a number of important matches in Sydney, which will be broadcast for the benefit of listeners by 2BL, who have exclusive rights.

FOLLOWING on the Carillon transmissions by 2BL, when one of the mechanics "stood by" the microphone, on the roof of the University for 2½ hours. The telephones at 2BL were unable to cope with all the 'phone messages of congratulations, which poured in for half-an-hour.

IN RESPONSE to numerous requests, the Silver Quartette will play for 2BL on Wednesday, May 16th. The instruments played are: Solo cornet, A. Kenny; tenor horn, S. Makin; euphonium, R. Meadows; and second cornet, J. Loughland. Their numbers will be: (1) Spring (Round), (2) Lucia di Lammermoor (Donizetti), (3) Norma (Bellini), and (4) Siege of Rochelle (Balfe).

OWING TO THE popularity of the Wintergarden Theatre Symphony Orchestra, which 2BL has been broadcasting from the studio for the past six weeks, it has now been decided to broadcast this combination from the theatre direct, twice weekly, in classic, romantic, and jazz music. The orchestra specialises in these departments.

WRESTLING will commence its interesting season in another month, and many listeners who remember the graphic descriptions of these matches by Walter E. Withrow from 2BL last year will be pleased to find that he will take over the job during this season. The boxing contests from the Stadium will still be described by the eloquent, Mr. Basil Kirke, and one night every week will be given to each of the two sports.

A SPECIAL Scottish Night has been arranged for transmission by 2BL on Monday, 14th May. Several well-known artists will take part, and listeners, Celtic or otherwise, are assured of a good programme.

IN ADDITION to the usual sports and Stadium broadcasts to be carried out by 2BL on Saturday, May 12th, the chief choral contest will be transmitted from the Kurri Kurri Eisteddfod in conjunction with a concert by the successful vocalists and instrumentalists.

HECTOR, THE BIRD, at 2BL is beginning to whisper. He is expressing his sorrow and regret to hear that a certain popular member of 2BL's staff has become entangled in the bonds which lead to matrimony. The "Wedding March" has been dusted, and 2BL can do no more. Hector's regret is not caused by the loss of the member of the staff concerned, as he will probably remain with 2BL, but the Wireless Bird admits he is indeed sorry to see such a good man—and you'll guess the rest.

WHAT MORE fitting to the occasion of Anzac Day than that the celebrations be described by an Anzac? Thus it was, that the celebrations and service, which was broadcast by 2BL from the Domain, were fully described by Mr. Basil Kirke, of 2BL, who is, himself, a returned Anzac man.

SOME OF AUSTRALIA'S future radio artists to be are already making the acquaintance of the microphone. This is owing to the Competition that is being run by 2KY, the winners of which will receive gold medals, a silver cup, and an engagement by Clay's Vaudeville. The competition is open without fee to any child, man or woman, who can sing, entertain, or play an instrument, and owing to numerous requests, the closing date has not yet been finalised.



Robert Turner, elocutionist, appearing at 2BL.

IT IS HARD to conjecture the curious music made by a combination of the Irish Pipes, a violin, and a flute—but listeners who recently heard the Irish Night from 2BL voted it wonderful. So great was the response, that an Irish Night is to be held on the third Monday in every month. On the first Monday of every month, there is to be a Scotch Night. Various other national Nights are being prepared, an English night being next on the programme. Shortly Mr. Haagen Holenbergh, Clem Williams, and Mrs. Boyle England will co-operate in a Scandinavian night. The next Irish Night will be on May 21st, and the Scottish Night on May 14th.

MR. G. VERN BARNETT is undoubtedly the right man in the right place. Since he took over the position as musical director to 2BL (approximately seven months ago), lovers of good music have been extremely well catered for. Public appreciation has been eloquently expressed by hundreds of letters received. Despite the more infrequent moans of the few who like the jingle of jazz, it is easily seen that the greater percentage of Australian listeners appreciate real music.

LAST YEAR three well-known engineers were electrocuted through coming into contact with some uninsulated part of a radio plant. If quick action is taken by someone who happens to be near, something may be done to save the life of the person who is paralysed by the shock. It is of no use attempting to pull him away, you will only be paralysed yourself, so the following instructions should be followed:—

REMOVE the victim from the live wire if he is still clutching it. Remember moisture—perspiration, rain, etc.—conducts electricity; so does metal—e.g., nails in boots—so be careful how you handle the victim. Use a dry coat, dry rope, dry crooked stick of any other dry non-conductor, or even the victim's clothes if dry, but they are liable to be moist under his arms. If you have to touch his body, cover your hands with some rubber article or several layers of dry cloth, or stand on a dry board, glass or other insulating surface. A line may be short circuited by throwing an iron chain or wire across the two conductors of the circuit, but care must be taken to let go before the contact takes place.

In the 2FC Programmes

Classic Music—Shakesperian Features—Peter Gawthorne—Irish Music—
Goodie Reeve

CLASSIC NIGHT: The feature of 2FC's programme on Thursday night, 17th May, is Wagner's opera, "Lohengrin," with historical and descriptive comment, arranged by Roland Foster.

JULES VAN DER KLEI, who is now engaged in one of Sydney's leading picture theatre orchestras, is only free for broadcasting on Sunday night, and 2FC have taken advantage of the opportunity to include him in the programme after church on the 13th May.

SYDNEY GALLAND, whose prologue work is an outstanding feature in many of Sydney's leading picture shows, finds time to include broadcasting in his activities. His microphone "sense" gives him a voice control which results in successful recording, and he is a firm favorite with 2FC listeners. He is singing on the afternoon of Friday, 11th May.

"SHAKESPERIAN NIGHT": Bryson Taylor is to be associated with the H. W. Varna Company in "Twelfth Night" (the scene in Duke Orsino's Palace), followed by "The Kitchen Scene," and the "Forest of Arden" ("As you like it"), to be produced at 2FC on Wednesday, 16th May. H. W. Varna will play the part of the Duke, and "Malvolio" in the "Kitchen Scene," and in "As You Like It" he will take Melancholy Jacques.

"GREAT VIOLINS and great violinists" is the subject of Madame Evelyn Grieg's lecture at 2FC studio on Friday afternoon, 11th May. It takes an artist of Madame Grieg's ability to infuse sufficient interest into such a talk to make it attractive to her comprehensive unseen audience. She realises that for every one whose musical education fits him to fully appreciate her subject, there are nine whose personal taste runs along ordinary popular lines. The man in the street probably does not know the first thing about the construction of a violin, much less the peculiarities characteristic of various makers, and as for violinists—well, as the gentleman who had the courage of his convictions remarked: "That chap Kreisler plays pretty well, doesn't he?" Madame Grieg has the happy knack of reaching listening artists of her own standard through the medium of a breezy style which interests those who make no pretense to musical ability.

GOODIE REEVE, in response to many requests, will continue her chats on Hollywood at 2FC on Friday night, 11th May. Miss Reeve is very busy on publicity work of an exacting nature, but she confesses with a smile she doesn't call broadcasting "work." "I just come along to the Studio and sit down and talk to my friends," she says.

VLADIMIR ELIN, the eminent Russian baritone, who was so enthusiastically received on the occasion of Henry Penn's recital at the Conservatorium last Friday, is appearing at 2FC on Tuesday night, 15th May. Listeners will anticipate with pleasure the well chosen programme of this delightful artist.

SYDNEY UNIVERSITY ATHLETIC CHAMPIONSHIPS: These events will be described in play from the Oval on the afternoon of 16th May, by 2FC.

WELSH CHURCH: How many people realise there is such a thing in Sydney? On Sunday afternoon, 13th May, the service will be transmitted by 2FC from the Assembly Hall of the Y.W.C.A. with special choral music under the direction of W. Rees.

MR. PETER GAWTHORNE chose the works of a personal friend of his—Herbert Hughes: "The Foggy Dew," "The Queen of Connemara," "Hey Ho," "The Morning Dew," and "The Fancied Grove," gave his artistic ability full scope, and created an enthusiastic response in the form of many letters of congratulation.

FURTHER recitals along similar lines have been arranged, and will include songs for tenor, contralto and soprano. Groups will be drawn from such composers as Sir Charles Villiers Stanford, Herbert Hughes, Alicia Needham, Charles Wood, Hamilton Harty, A. Somervell, O'Connor Morris, and the many collections of the music of the Irish folk-composers.

RECITAL OF IRISH TRADITIONAL MUSIC: For the first time in Australia a definite effort to tap the mine of Irish traditional melody was made on Wednesday night last, on the occasion of the lecture-recital arranged by Fergus Mac Roy. Modern versions of traditional songs were rendered by Peter Gawthorne, accompanied by the 2FC string quartette. These songs illustrated the lecture by Mr. Mac Roy. "The recital is intended to give listeners an introduction to real Irish music," he said, "There are many enthusiastic lovers of the music of Ireland in Australia, but too often they have to be content with a counterfeit presentment that does not deserve the name of Irish music. In a superabundant collection there are songs to suit every voice, there are tunes to supply the groundwork for any musical form for any occasion."

LITTLE JOHNNY had been earnestly listening to the Hello Man for some time, and at the conclusion of the Children's Session, he removed the earphones, and noticed they were covered with perspiration. "Mummy," he called, "look at his breath!"

GOODWILL DAY.

THE ROTARY CLUBS of the world are co-operating with the League of Nations in spreading the gospel of peace and goodwill on May 18th, which is to be observed throughout the world as Goodwill Day. 3LO are going to conduct a special short wave world Broadcast on 32 metres between 4.30 and 6.30 a.m. on Saturday, May 19th, which corresponds to 18.30 to 20.30 G.M.T., on May 18th. By this means special messages of goodwill will be transmitted to the ends of the Earth to be heard by people of every nationality.

This goodwill day, from Station 3LO

We offer forth Australia's ether hand

To peoples of the world from Pole to Pole.

For all to hear we voice Australia's prayer,

That fruitful and unending peace may bless

Our human kind; that wholesome rivalries

May urge us still but ever be confined

To swelling of the sum of human joy;

And that the spirit of this goodwill day

May flourish unimpeded till shall be

A world of trusting peoples side by side,

Advancing to the grand resplendent goal

Whereof we dream. To-night Australians all

Send goodwill wishes with these words that flow

By ether from Australia's 3LO.

THE OUTSTANDING SUCCESS of the rebroadcast of the Official Opening of the new 2FC Studios has proved yet another source of gratification to that enterprising Station. The Programme on Monday night last, 30th April, was transmitted on the dual wave length of 442 and 28.5 metres. Reports on successful reception were received from 6WF (Western Australia) and 3LO, and the Schenectady Station WGY cabled "Programme heard distinctly" and congratulating 2FC on the remarkable clarity of reception.

2FC RECEIVE many a listener's strange requests in the matter of unusual announcements, and were genuinely regretful at their inability to grant the favor asked from Camperdown. "I would like you to broadcast the following notice for me," she wrote. "A young lady, 21, would like a position as shorthand-typiste, secretary or companion, somewhere on the Mountains, or in the country. I would like them to send any replies to your station, and for you to forward same to me." We wonder if it was in deference to the already over-worked postal officials, or Departmental regulations, which prompted the refusal.

RAYMOND ELLIS, the eminent English baritone, announces his farewell recital at 2FC on 23rd May. Mr. Ellis has spent two years in this country, and claims to have earned more fees through broadcasting than any other individual artist. 2FC have taken advantage of every opportunity to utilise his services.

During the three weeks he recently spent in Melbourne, he appeared with the Melbourne Philharmonic Society in the Grail Scene from "Parsifal," accompanied by the Conservatorium Orchestra, and his recital in the Assembly Hall on 21st April earned well merited praise from Melbourne critics.

He gave a series of concert lecturettes for the benefit of ten different schools, and sang twice at 3AR.

After a hurried trip to Brisbane to fulfil further engagements, he will return to Sydney to complete his final appearances with 2FC. On 24th May he leaves for Melbourne, where he has been specially engaged to sing at the first Municipal Concert to be held in the new Town Hall.

"ROSE MARIE" Listeners will bid a regretful farewell to the brightest musical comedy staged in Sydney for some time, on Friday night, 11th May, when the 2nd Act of "Rose Marie" will be broadcast by 2FC. This is the last night, and the enthusiastic reception accorded to foremost of all stage favorites, Harriet Bennet, should provide excellent broadcasting "atmosphere."

"POPULAR NIGHT": Broadcasting stations are faced with the traditional difficulty of the old man and his ass. They strive to suit every taste, and very often suffer the fate of the owner of the donkey. 2FC seizes every opportunity of inviting constructive criticism, and the programme for Saturday night 12th May is the direct result of a united request: "Give us a straight out popular night." Rus Garling is back from the West, with

a wealth of humorous song and story. Wally Baynes and Willie Shine have worked hard on their double act of novel drolleries. Hal Rae will contribute songs at the piano, and the work of Jack Wright, novelty pianist of no mean ability, is well known to 2FC listeners. A good all round popular programme, which should prove an entertaining Saturday night feature.

2FC—Coming Features of the Week Talks

FRIDAY, 11th MAY:

- 8.45 p.m.—Madame Evelyn Grieg: "Great Violins and Great Violinists."
- 7.45 p.m.—Rev. F. H. Raward: "Let's go round the World."
- 8.45 p.m.—Goodie Reeve: "Hollywood."

SATURDAY, 12th MAY:

- 11 a.m.—"Redgum": "Gardening."
- 7.45 p.m.—W. F. Kay: "Harry Rickards."

SUNDAY, 13th MAY:

- 6.5 p.m.—Captain Fred Aarons: "A Jaunt through Japan."

MONDAY, 14th MAY:

- 7.45 p.m.—Graham Kent: A Bridge Talk. "Fetishes."
- 8.45 p.m.—Elliott Napier: "The Great Barrier Reef."

TUESDAY, 15th MAY:

- 6.50 p.m.—Captain Fred Aarons: "The Blunder Budget."
- 7.45 p.m.—T. E. Grattan Smith: Book Reviews.

WEDNESDAY, 16th MAY:

- 7.45 p.m.—G. V. Portus: "History."

Church Services

SUNDAY, 13th MAY:

- 11 a.m.—Cathedral Church of St. Andrew.
- 7 p.m.—Pitt Street Congregational.
- 8 p.m.—Welsh Church from Y.W.C.A. Assembly Hall.

Music, &c.

FRIDAY, 11th MAY:

- 8.15 p.m.—MADAME BETTS VINCENT: Pianoforte Recital.

SATURDAY, 12th MAY:

- 8 p.m.—Special "Popular Night," featuring old 2FC favorites—James Donnelly, Wally Baynes, Jack Wright, Rus. Garling and others.

SUNDAY, 13th MAY:

- 4 p.m.—MANLY BAND.
- 2.55 p.m.—WELSH CHORAL Service.

MONDAY, 14th MAY:

- 8.15 p.m.—Comic Opera Memories: "Le Cloches de Corneville." MADAME EMILY MARKS.

TUESDAY, 15th MAY:

- 8.20 p.m.—VLADIMIR ELIN, baritone.

WEDNESDAY, 16th MAY:

- 8.25 p.m.—MADAME VERA TASMA.

THURSDAY, 17th MAY:

- 8.15 p.m.—Synopsis of Wagner's Opera, "Lohengrin," with historical and descriptive comment, arranged by ROLAND FOSTER.

Musical Comedy, Drama, Sketches, &c.

FRIDAY, 11th MAY:

- 9.40 p.m.—Second Act of "Rose Marie," the last night of this record-breaking production.

TUESDAY, 15th MAY:

- 8.48 p.m.—EDGAR WARWICK AND EILEEN DAWN: "A Simple Affair" (Warwick).

WEDNESDAY, 16th MAY:

- 8.25 p.m.—H. W. Varna Company: "Twelfth Night," assisted by Bryson Taylor.

Improving Your B Eliminator

By D. E. Replogle.

Raytheon Research Laboratories.

THE B-eliminator of to-day is hardly the B-eliminator of several years ago, so far as performance is concerned. Important improvements have been scored, mainly in the rectifier and the filter circuit, together with better methods of obtaining and maintaining the desired output voltages. However—and fortunately for many of us—the majority of these improvements are applicable to most of the existing radio power supply devices, so that the original investment is still sound.

A B-power device or B-eliminator, comprises four distinct components: the transformer, the rectifier, the filter circuit, and the output resistance network. The transformers employed in high-grade power units to-day are essentially the same as those of a year or two ago. The filter circuit remains much the same, although heavier chokes and somewhat better filter condensers are in evidence in the latest offerings. It is in the rectifier and the output voltage regulation, however, that marked changes have taken place, and these are the factors in bringing the old B-power device up to date.

Rectifiers, whether of the ionised helium or the filament type, have been refined during the past two years, until the present-day types are capable of handling much greater current at higher working voltages, of silent operation, and of providing long and satisfactory service.

The starting point in improving the existing B-eliminator is the rectifier tube. In this connection it is necessary first to clarify a misunderstanding which has gained ground of late, namely, that a rectifier tube must be replaced by one of the identically same type. While it is a safe rule to replace a tube with a like tube, the fact remains that by adhering too closely to this rule we lose certain advantages scored in rectifier practice, which might well be gained without running any serious risks. For example, the Raytheon B, originally

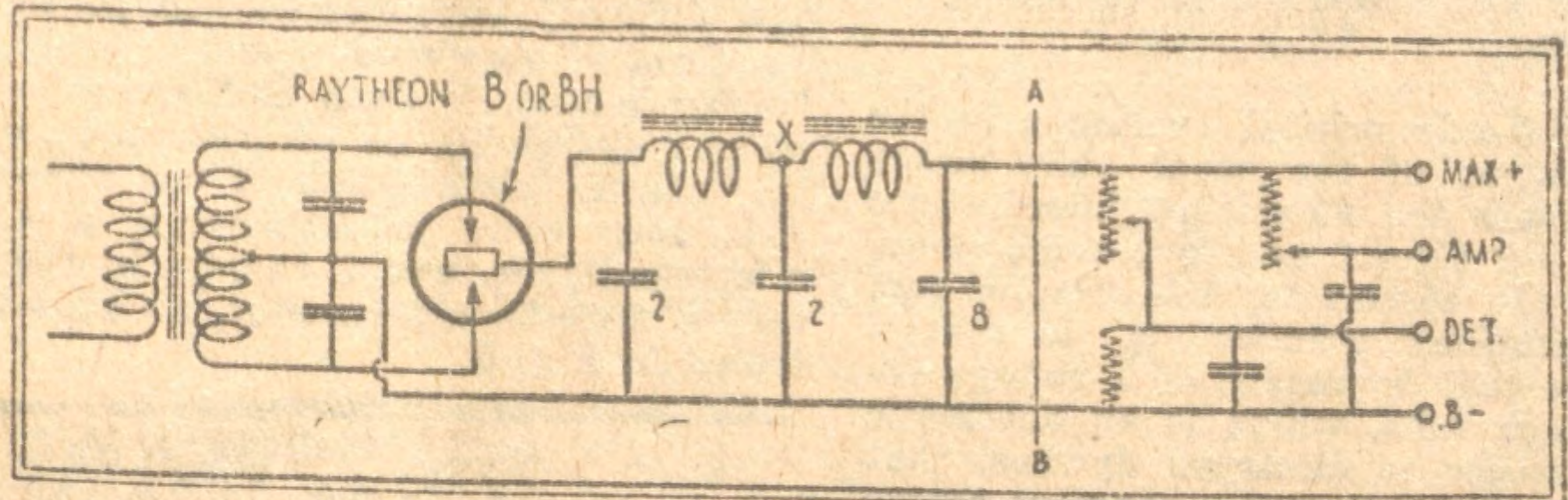


Fig. 1.—Typical B-power unit. Everything beyond A-B is disconnected and device herewith described substituted for improved B-power supply.

ally employed in most B-eliminators, has a voltage drop of approximately 120 volts, which reduces the transformer secondary voltage by just that much, together with the voltage drop in the filter circuit. The present Raytheon BH has a voltage drop of approximately 90, so that if we substitute that tube for the original Type B, we are gaining about 30 volts.

Now if the Raytheon BH were made in the fashion of the early gaseous rectifier tubes and those

markable increase in volume and bass note reproduction may be obtained by substituting the present Type BH. The output, due to this substitution, now takes care of the full 180-volt supply requirements of the .71 type power tube, with a total of 40 milliamperes of current to supply the power amplifier and receiver requirements.

The filter condensers, are usually built with sufficient factor of safety to withstand the slight increase in working voltage as the result of changing over from the B to the BH Raytheon. The main thing to guard against is the dangerous surge and the accompanying peak voltages, due to operating the B-power device with the filaments of the receiver turned off. Here, again, the excellent regulation of the present improved BH Raytheons reduces this strain to a minimum.

The buffer condensers are not subjected to increased strain, since the voltage across them is determined by the power transformer and not by the rectifier tube.

In the matter of the life of the rectifier, the new BH tube, with a current output of 125 milliamperes at 200 volts as against 60 milliamperes at 150 volts in the case of the B type, has left little to be desired. In the usual application this tube is operating at a third or possibly a half of its full rating, so that its life is greatly increased.

So much for the rectifier, which is the heart of the radio power unit. Other recent improvements have taken the form of better voltage regulation at the output end. Reliable potentiometer resistances, together with voltage regulator tubes to maintain fixed voltages across two or more terminals; have been made available in the better types of manufactured devices, and also as accessories for existing units.

Much of the noise and the fluctuating performance found in the earlier types of radio power devices could be traced to faulty resistors. To-day

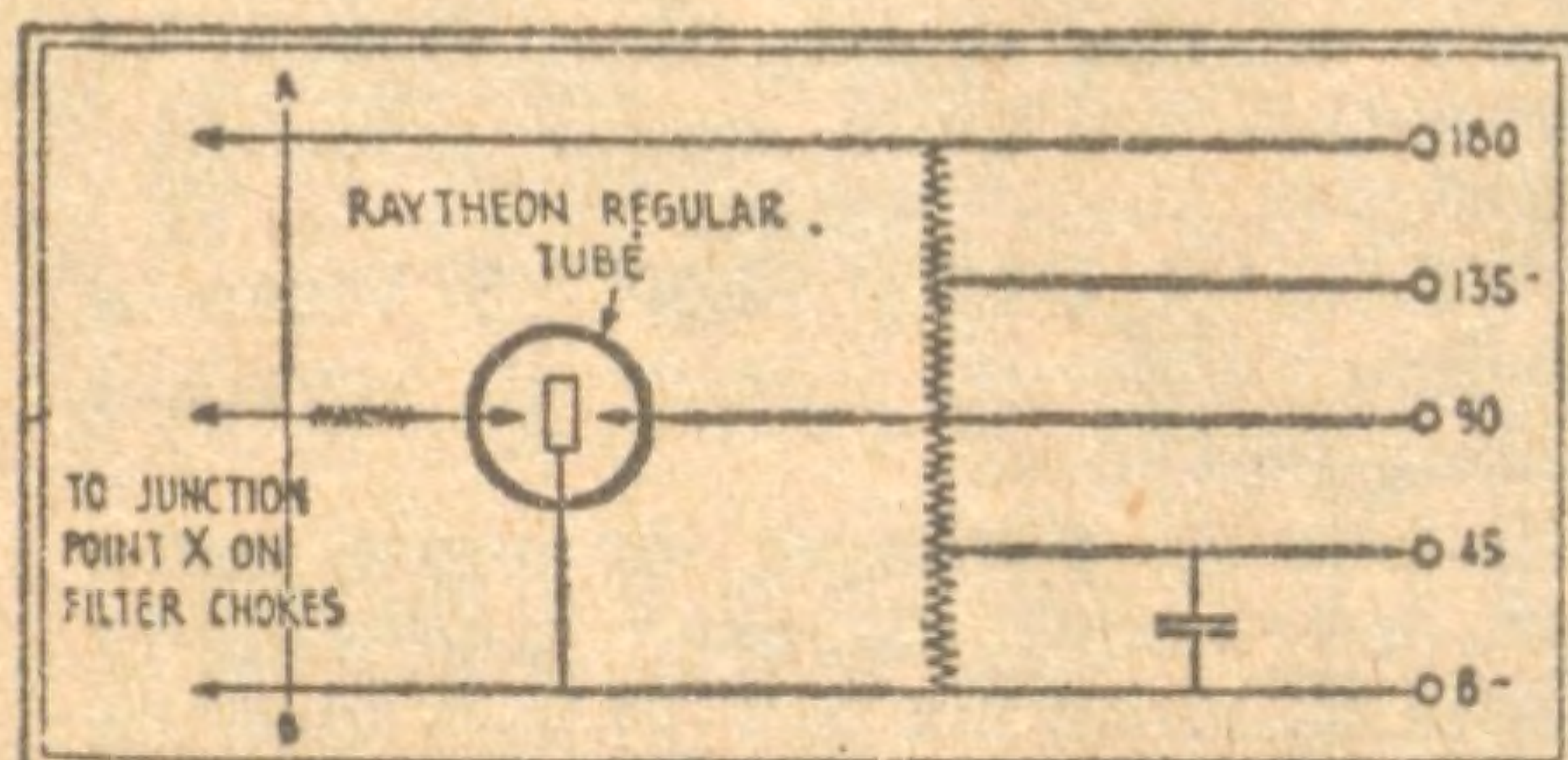


Fig. 4.—Wiring for device that improves usual B-power unit.

tubes which have not been refined through extensive research and engineering, the additional 30 volts might be augmented to dangerous proportions at minimum loads and no load. Thus, if the rectifier were operating with the filaments of the radio receiving set turned off, which is often the case through carelessness, the peak voltages might prove extremely high at the comparatively low voltage drop of 90 volts. However, the present Raytheon BH is so designed that no dangerous surges or peaks are permitted to exist. It has what engineers term a good regulation curve, maintaining a fairly uniform output voltage over a considerable range of current flow. Its regulation is superior to that of the Raytheon B, so that as a matter of actual practice it causes less electrical strain on the filter condensers than in the case of the Raytheon B.

With virtually any good Raytheon B-eliminator heretofore provided with the Raytheon B type rectifier, re-

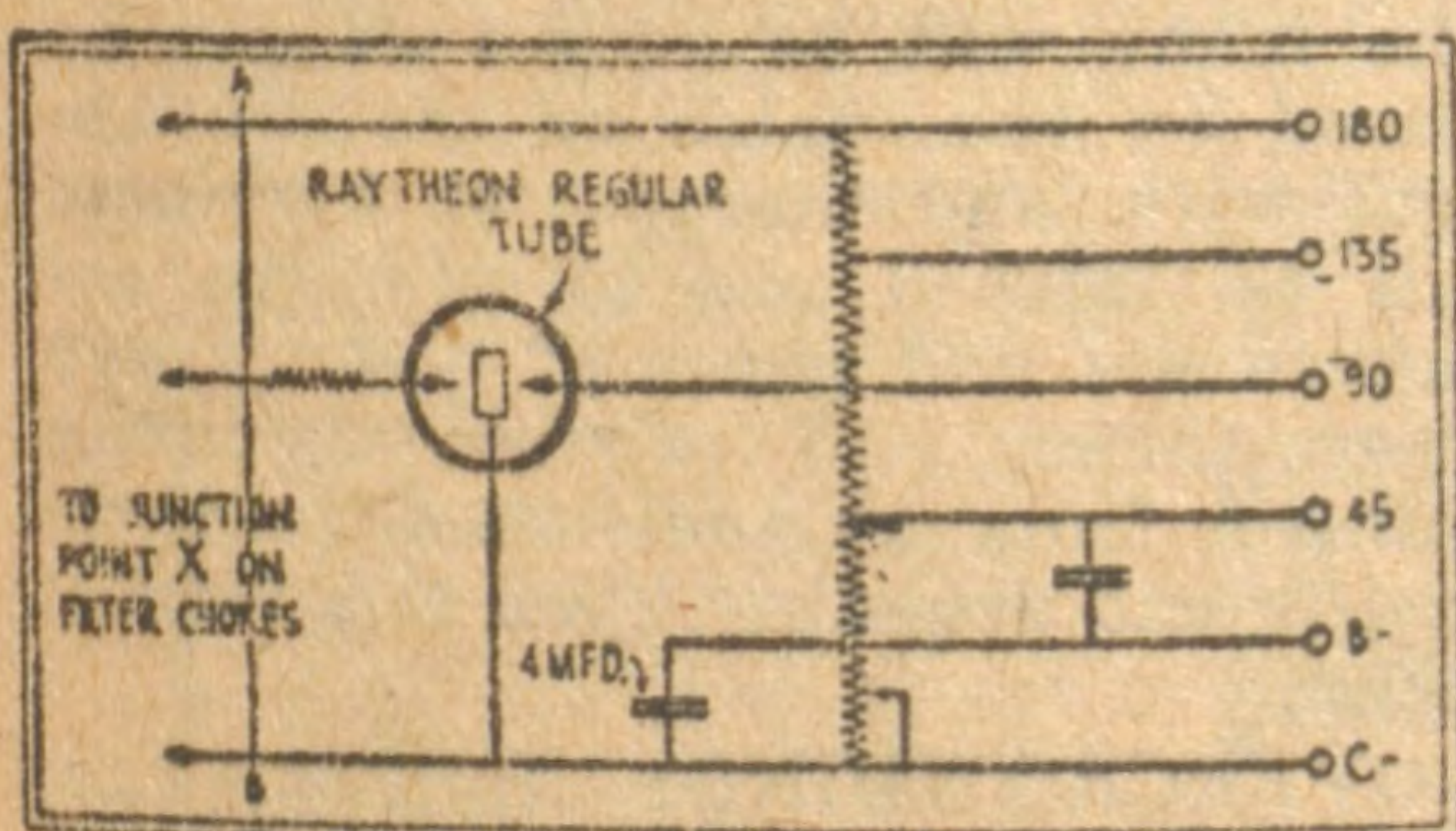


Fig. 5.—How the C or grid-biasing tap may be added.

the tendency is towards the potentiometer arrangement of fixed resistors, placed across the full output of the filter circuit. The resistance network is being made of less and less resistance, so as to assure a heavier flow of current through it for the purpose of securing still better voltage regulation.

The only critical voltages in the operation of the usual radio power unit are the 90-volt or intermediate tap, for the r.f. and first audio tubes, and the 45-volt for the detector tap. Present-day practice is to control these taps by means of a voltage regulator tube, which is an automatic resistance or electrical flywheel that maintains the voltage constant across its terminals irrespective of varying current drain over wide limits. The voltage regulator tube, or Raytheon R, prevents the troublesome "motor-boating" so often experienced with resistance or impedance coupling with a B-power supply. It also reduces the hum and improves tone quality, since it is the electrical equivalent of a filter condenser across the output.

In the accompanying photographs is presented an adaptor which may be connected to many of the better quality "B" power units so as to incorporate the advantages of potentiometer resistance network and regulator tube, while increased working voltage and greater current output is obtained by replacing the B type with the BH type Raytheon. The diagrams indicate the wiring for the adaptor, and how it is connected to the usual B-power device and the receiver. It will be noted that the adaptor comprises a tapped potentiometer resistance, two by-pass condensers; a socket for the R tube, and a special current limiting resistor for use in the third element circuit of the regulator tube. These few parts, along with the necessary binding posts, may be mounted in almost any desirable manner.

Through the use of the BH tube more current is available, but it is necessary that the power unit have an adequately filtered output with the additional load taken by the regulator tube. When raw A.C. is used on the filament of the power tube, as is the case with many well-designed home-built receivers, it is a simple task to provide for the necessary power tube grid bias by means of a fixed resistor in the centre tap lead to the transformer filament winding. When the exact value of resistance is not known, a variable resistor of good make may be employed.

Where all the tubes in a receiver are operated from a battery or other A-power supply device, then it becomes preferable to use a battery for the power tube C voltage. In some

instances, however, the arrangement shown in Fig. 5 may be used with very satisfactory results if the C resistor is sufficiently by-passed—at least 4 mfd. being required. The success or failure of such a B-C device, however, depends largely upon the type of radio set with which it is employed. The difficulty encountered will be in the form of poor quality and possibly "motor-boating." Such a C arrangement may readily be incorporated in the adaptor by addition of the variable 1500 ohm. potentiometer, a 4 mfd. condenser, and a change in the tapped wire-wound resistor, as illustrated in Fig. 5.

The Women's Session

(Conducted by Dorothy Jordan, 2BL)

THE PROBLEM OF FOOD DEFICIENCY: Dr. Harvey Sutton, Chief Medical Officer in the Educational Department, in his lectures from the Women's Session at 2BL, lays great emphasis on the question of Food values.

Deficiency diseases are fortunately becoming more rare and we hope will entirely disappear with the increased knowledge being broadcast in Australia by Medical men and Lecturers on Food values and Diet, and that Householders will be conscious and aware of the exact food values of any article in their menu.

VITAMIN DEFICIENCY: Vitamin deficiency occurs only in certain special instances.

Rickets is perhaps our most common deficiency disease, and chiefly affects children six to eighteen months of age. Twenty-five per cent. of school children still show evidences of this disease.

It is chiefly due to the too early substitution of artificial feeding for the natural method of nourishment of the baby.

AN IDEAL SCHOOL LUNCH: Sandwiches, vegetable, tomato, lettuce, watercress, celery, cabbage, cucumber, onions, parsley, asparagus, all these would be eaten raw; cooked beet, beans (haricot); fruit, raw, oranges, apples, pears, pineapple, bananas; nuts, walnut, almond, peanut; dried dates, figs, sultanas, raisins, egg, Marmite, cheese (for older children). Any combination of the above. Jam, spaghetti and margarine are not included.

TROUBLES OF THE FOOT: Jean Gordon, the well known Foot Specialist, is giving a short series of talks on foot troubles each Tuesday, at 11.30. The lecturer will be pleased to answer any letters that are sent in to her. Letters sent in before Monday will be answered on the following Tuesday.

DO TRAMWAYS INTERFERE WITH RECEPTION?

If interference is experienced from electric tramways, though the trouble may not be entirely eliminated, it can be reduced by employing a counterpoise in place of the usual earth. The counterpoise should consist of a number of wires stretching below the aerial and at about 6 feet or so from the ground. It will be necessary to pay the same attention to the insulation of these wires as would be given to an aerial, and a well-insulated lead should be taken from one end, where the wires should be joined together, to the earth terminal of the set.

A SON ENQUIRES: In a letter from Kensington received this week a writer says, "my mother has had a case of date plums sent her, and we want to know can jam be made from them. They are not very ripe yet."

Another letter from Taree in which the writer asks if "Granadillas can be made into preserves," I was in doubt about the answer, and said so, when next day a letter came from another listener from Randwick enclosing a recipe for jam made from Granadillas.

"My husband does not like white sauce on his fish, can you tell me what kind of sauce will take its place?" writes another listener.

SISTER BIRKIN TALKS on treatment of accidental wounds and injuries. How to render First Aid in the case of Contused Wounds, Lacerated wounds and wounds caused by sharp-pointed instruments. What to do in the event of a person being stung by poisonous insects.

Many painful after affects would not occur if one knew just what to do when an accident takes place. In the case of wounds, one must act at once pending the arrival of the medical man. It is for this reason that we welcome such talks as Sister Birkin is giving. Her talks are given on Friday afternoon at 3 p.m.

WEEKLY MENU: As the colder weather commences it is my intention to give each Monday a menu for the following week. In this talk I hope to introduce a list of new dishes, which we are evolving at the moment. The menu will be such that can be placed on the table of the average housewife, and the cost of the same will be worked out to suit the requirements and purse of the average wage earner. I propose to invite opinions from my audience about their saving and spending upon this weekly menu.

OVERCROWDING: Overcrowding in the home and the diminution of play grounds and activities in the sunshine is also usually associated.

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YOU are cordially invited to co-operate in creating a heading for the new Philips Loudspeaker Poster reproduced here. To the originator of the caption that is actually used we will pay £25.

Can you link the two delightful kittens with the Philips Loudspeaker in an appealing and telling manner?

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attractive colour schemes, the smaller, the PCJJ Junior, in maroon only.

Secondly.—For their operation they depend on a balanced magnet system which actuates a full floating cone. The volume and fidelity of reproduction is remarkable, and cannot be approached by any other speaker at any price.

Thirdly.—You may purchase a "PCJJ" for £6/10/- or a PCJJ Junior for £5/5/-. All dealers sell them.

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Just write your suggested caption, brevity is essential, on a slip of paper and attach it to the coupon, correctly filled in with your name and address, place this in an envelope marked "Poster Competition" in the left hand top corner, and mail to Box 2703C, G.P.O., Sydney.

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ADDRESS.....

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Only one entry may be sent in by any one person. Results will be decided by the Advertising Dept., Philips Lamps (Australasia) Ltd., whose decision must be accepted as final. All entries must be posted to arrive not later than the 26th May, 1928.

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LOUDSPEAKERS

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Other Efficient Econotron Valves

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| Wetless Mica, .0001, .001, .002 | 1/6 |
| Wetless, .00025, with clips | 1/9 |
| Aerovox Bakelite Moulded, Various Capacities to .0005 | 2/3 |
| Do., above, .0005 | 2/9 |
| Do., .00025 and Clips | 2/11 |
| Eco Bypass 1 M.F., 3/9; 2 M.F. .. | 5/6 |

GRIDLEAKS.

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| Philmore, Certified, 1/2 to 5 megs. .. | 1/- |
| Electrad, 10 megs., Metallised | 3/6 |

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| Black, 2in., engraved | 1/- |
| Black, 3in., engraved | 1/- |
| Black, 4in., engraved | 2/3 |
| Bakelite, 3in., Kursh Kash | 2/3 |
| Bakelite, 4in., Kursh Kash | 2/9 |
| Bakelite Vernier, Emmco | 7/6 |
| B.M.S., Bakelite | 6/6 |
| Pilot Art Dials, Black or Mahog. ... | 7/6 |
| Ormond Vernier | 9/6 |
| W.R.C. Bakelite, Vernier | 4/6 |

"GO-GETTER" SHORT WAVE

RECEIVER PARTS. £ s. d.

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|---|---|----|----|
| 2 Luzerne High Insulation Panels, Size, 18 x 7 x 3-16, at 6/6 ... | 0 | 13 | 0 |
| 3 Pilot Anti-vibration UX Sockets, at 3/3 | 0 | 9 | 9 |
| 1 Radiokes Short Wave Kit, complete | 2 | 15 | 0 |
| 1 Pair Sub-panel Brackets | 0 | 3 | 6 |
| 1 Pilot Centraline Condenser, .00015 | 0 | 11 | 3 |
| 1 Pilot Centraline Condenser, .00025 | 0 | 12 | 0 |
| 2 Emmco Vernier Dials, Bakelite, at 7/6 | 0 | 15 | 0 |
| 1 30 ohm. Ajax Super Rheostat .. | 0 | 2 | 6 |
| 1 Crescent 6 to 1 Audio Transformer | 0 | 13 | 6 |
| 1 Crescent 3 1/2 to 1 Audio Transformer | 0 | 13 | 6 |
| 1 Royalty Resistor, Type B. | 0 | 10 | 0 |
| 1 New Radio Frequency Choke .. | 0 | 5 | 6 |
| 1 Double Circuit Non-solder Jack .. | 0 | 0 | 8 |
| 1 Single Circuit Non-solder Jack .. | 0 | 0 | 8 |
| 1 Aerovox Moulded Mica Condenser, .00025 | 0 | 2 | 11 |
| 1 10 megohm Electrad Metallised Gridleak | 0 | 3 | 6 |
| 1 Sangamo .006 Condenser | 0 | 4 | 6 |
| 7 High Grade Engraved Terminals, at 5d. | 0 | 2 | 11 |
| 1 E.C.S. Plug and Socket | 0 | 0 | 5 |
| 1 Doz. Round Buswire | 0 | 0 | 11 |
| 3 Lengths Best Spaghetti, at 4d. 0 | 1 | 0 | 0 |
| £9 2 0 | | | |

HEADPHONES.

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| Cannonball, 4000 ohm. | 12/6 |
| Emmco, 4000 ohm. | 21/- |
| Brandes, 4000 ohm. | 22/6 |

SPEAKERS.

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| Amplion, A.R.102, 25/-; A.R.38 ... | 60/- |
| Amplion, A.R.114, 75/-; A.R.65 ... | 95/- |
| Amplion, A.R.19 | £6/10/- |
| Brown's, H4 | 40/- |
| "Box" Speakers | 21/- |

JACKS AND PLUGS.

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|-------------------------------------|-----|
| Philmore Double Circuit | 2/2 |
| Philmore Single Circuit | 1/7 |
| Ashley Non-solder D.C. or S.C. | 8d. |
| B.M.S. Midget Jack | 1/- |
| Philmore, Double Plug | 1/7 |
| B.M.S., Automatic Plug | 2/6 |

TRANSFORMERS.

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| Crescent, Audio, 6 or 3 1/2 to 1 | 13/6 |
| Emmco, Audio, 5, or 3 1/2 to 1 | 17/6 |
| A.W.A. Audio, 5 or 3 1/2 to 1 | 18/- |
| Econotran, Audio, 3 1/2 to 1 | 8/6 |
| Karas, Harmonik (All Stage) | 34/9 |
| Bellringing Transformers, "Dongan" .. | 10/6 |

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| Neutrodyne Kits, Wetless | 27/6 |
| Neutrodyne Kits, Pollock's | 11/6 |
| Radiokes Kits | 32/6 |
| Airzone, Kits | 22/6 |
| Browning-Drake Radiokes | 40/- |
| Airzone Browning-Drake | 22/6 |
| Marco Coil Kits, Pollock's | 9/6 |
| Reinartz Coils, Pollock's | 3/9 |
| Reinartz Coils, Radiokes | 10/6 |
| Three Coil Tuners | 11/- |
| Solodyne Kits, Wetless | 65/- |
| Solodyne Kits, Radiokes | 70/- |
| Peridyne Kits, Radiokes | 75/- |

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Set Parts, with wiring diagram ... 66/-

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| Philips', A109, B105, A630, A609, B605, A409, A425, A435, B406 ... | 13/6 |
| Philips', B403 | 15/- |
| Philips', A415, A615 | 17/6 |
| Mullard, PM 1, 2, 3, 4, 5 and 6 ... | 13/6 |
| Mullard, P.M. 254, 256 | 15/- |
| Econotron Dry Cell, Type 199, 3 Volts, .06 UX, UV or VT | 6/9 |
| Econotron Battery, Type 201A, 6 V., .25 amp. UX | 5/6 |
| Resistance or H.F. Type | 9/9 |
| 200A Detector Type | 13/6 |
| Radiotron, UX201A | 8/- |
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| Exide, D.T.G., 2 Volts, 20 A.H. | 8/6 |
| Exide, D.T.G., 4 Volts, 17/-; 6 Volts .. | 25/6 |
| Exide, D.F.G., 2 Volts, 40 Amp. | 16/- |
| Exide, D.F.G., 4 Volts, 32/-; 6 Volts, .. | 48/- |

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| Ever-ready B. Batt., W.P. 30, 30 V. | 9/6 |
| Ever-ready B. Batt., W.P. 40, 42 V. | 12/6 |
| Ever-ready B. Batt., W.P. 60, 60 V. | 18/- |
| Samson Heavy Duty, 45 Volts | 21/- |
| Burgess Heavy Duty, 45 Volts | 26/- |
| C. Batteries, Ever-ready, 42 Volts .. | 2/9 |
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| Quaker, S.L.F., Brass, .0005 | 9/6 |
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| Pilot Centraline, .0005 | 14/6 |
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| Ripault's Lateral Action, .0005 | 14/4 |
| Karas Orthometric, .0005 | 84/9 |
| Karas Orthometric, .00037 | 33/6 |

CONDENSERS—SHORT WAVE.

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| Ripault's, .00015 or .00025 | 14/4 |
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| Pilot Centraline, .00015 | 11/3 |
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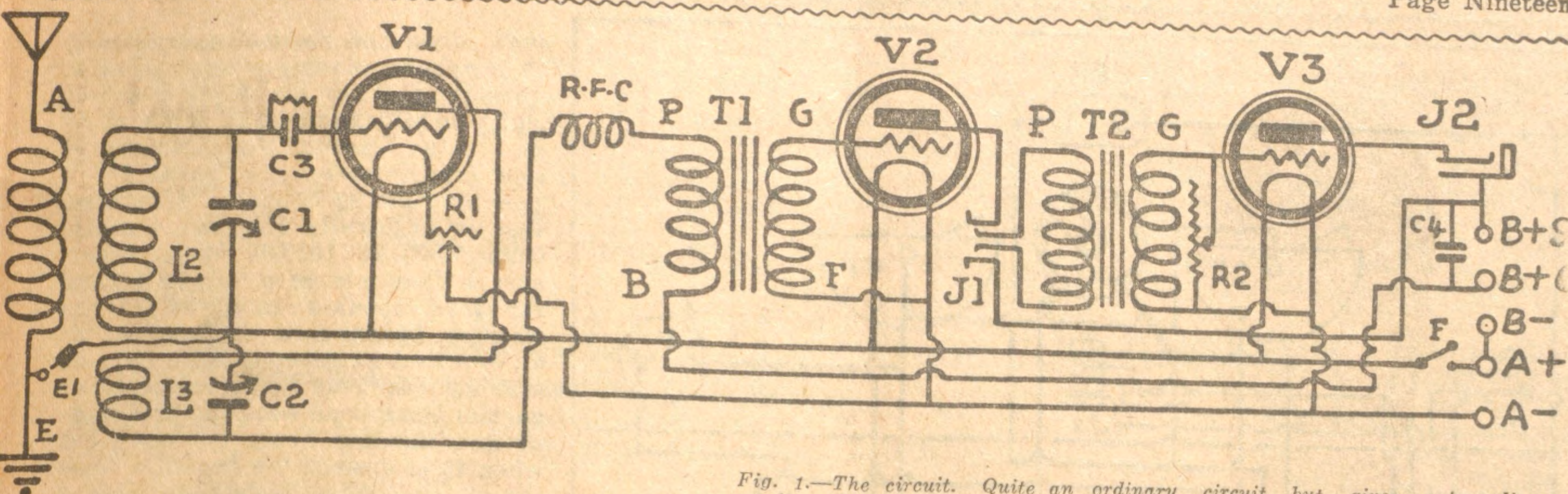


Fig. 1.—The circuit. Quite an ordinary circuit, but gives extraordinary results. This is a receiver which will clear up the mush so frequently met with in short-wave telephony.

The "Go-Getter" Short Wave Receiver

By the Technical Editor.

Last December, when I wrote an article on a short wave receiver under the title heading above, I made no extravagant claims whatsoever. The receiver described was merely carefully designed and may be quite easily duplicated by all and sundry. The article appeared in our sister journal, "Radio," and the result was a host of enthusiastic constructors, who in practically every case, endorsed the claims made. So insistent have my "Wireless Weekly" correspondents become, that the "Go-Getter" in its original form is placed before readers in this issue. Practically word for word, the constructional article is reproduced, but with additions where considered necessary.

There is nothing formidable about the construction of a short wave receiver, which is equally attractive to both the broadcast listener and the amateur telegraphist. The short wave broadcasting field includes today many different types of listeners, so that the circuit designer wishing to put forward a truly efficient receiver, must consider the demands of many. These demands include the amateur telegraphist, the experimenter, and the International Broadcast listener. Such a receiver must easily cover the wave-band from 30 to 40 metres swiftly for the telegraphist; the experimenter must be able to change rapidly from one band to the other with accurate and constant calibration; and the International broadcast enthusiast must be able to bring in the distant station with sufficient volume and ease of tuning. Once the station is tuned the latter wishes to be able to leave the controls alone and sit back in placid enjoyment of a programme originating on the other side of the earth. The gradual slide from the lower to the higher frequencies used now for the majority of the World's radio communication has

resulted since 1924, in a tremendous increase in the popularity of the shorter wave-bands. Ask the average user what type of receiver he prefers and the answer will be in-

LIST OF PARTS FOR THE "GO-GETTER" SHORT WAVE RECEIVER.

Although the parts listed below and mentioned throughout the articles were those actually used by us in the receiver described, it must be pointed out that it is not absolutely essential that they be rigidly adhered to. Other parts of similar quality and technical values should function quite satisfactorily.

- 1 Dilecto or Formica Panel, 18 x 7 x 3-16.
- 1 Dilecto Sub-panel, 18 x 8 x 3-16.
- 3 Benjamin UX Valve Sockets.
- 1 Radiokes Short Wave Coil Kit or Alternative Airzone Material, etc., as described.
- 2 Sub-panel Brackets.
- 1 Gecophone SLF .0003 Slow Motion Variable Condenser.
- 1 .00025 Good Quality Variable Condenser.
- 1 Emmco De Luxe Vernier Dial.
- 1 30 Ohm. Rheostat.
- 1 All American 10 to 1 ratio Intervolve Transformer.
- 1 A.W.A. 3½ to 1 ratio Intervolve Transformer.
- 1 Royalty Variable Resistance 1500 to 100,000 ohms.
- 1 Radiokes R.F. Choke.
- 1 Double Circuit Jack.
- 1 Single Circuit Jack.
- 1 .00025 Grid Condenser.
- 1 10 Megohm Grid Leak.
- 1 .006 Fixed Condenser T.C.C.
- 7 Moulded Top Terminals.
- 1 Ecks Socket and Plug.
- 16's Tinned Copper Wire, Spaghetti, Solder, etc.

variably "Schnell," "Reinartz" or "Three Circuit!" All are similar in principle and to a certain degree in operation, but, and it is a big "but," many vary from bad to mediocre to good in the results obtained. A carelessly designed and constructed short wave receiver is like the proverbial little girl; "when it is bad it is horrid." First and foremost, let it be understood clearly that it is futile to expect startling results by building a receiver of poor components. By this is meant, components must be of good solid construction and electrically correct. Results of some kind are obtainable with the cheapest of "junk" material, but the outcome is the odious comparison of a "flivver" and a "Rolls Royce." Consider for a moment the essential qualities of the desired instrument.

- (1) Ease of control and fine tuning.
- (2) Selectivity and easy covering of all bands (amateur).
- (3) Stability and "punch."
- (4) A good sound engineering job.

Having digested these details, let us get on to the fundamentals. The theoretical and practical circuit with values as shown is in the writer's opinion yet unbeaten by the Superheterodyne, or any circuit using an R.F. stage. This, of course, from the point of view from the man in the street! It is just how we make use of this familiar circuit that is the crux of the whole question. Details requiring first consideration are naturally, our old overworked friends inductance and capacity. The type of coils to be used, method of mounting, and the type of grid circuit tuning condenser first require attention. Having used every known make or type of coil, from the embryo days of 1912, the writer over-ruled the familiar floppy "basket weave" (Lorenz), the scramble "after thought," the fine

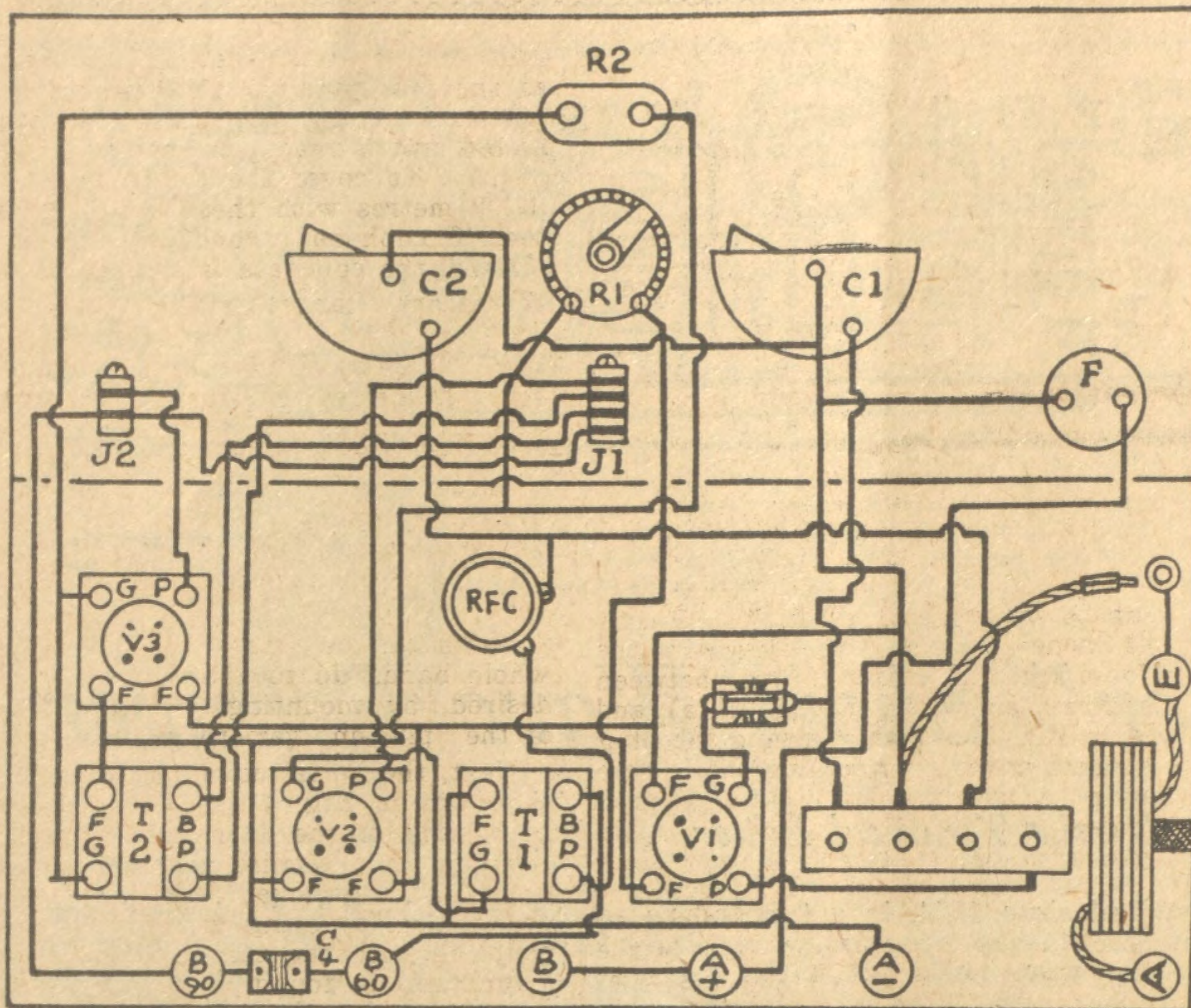


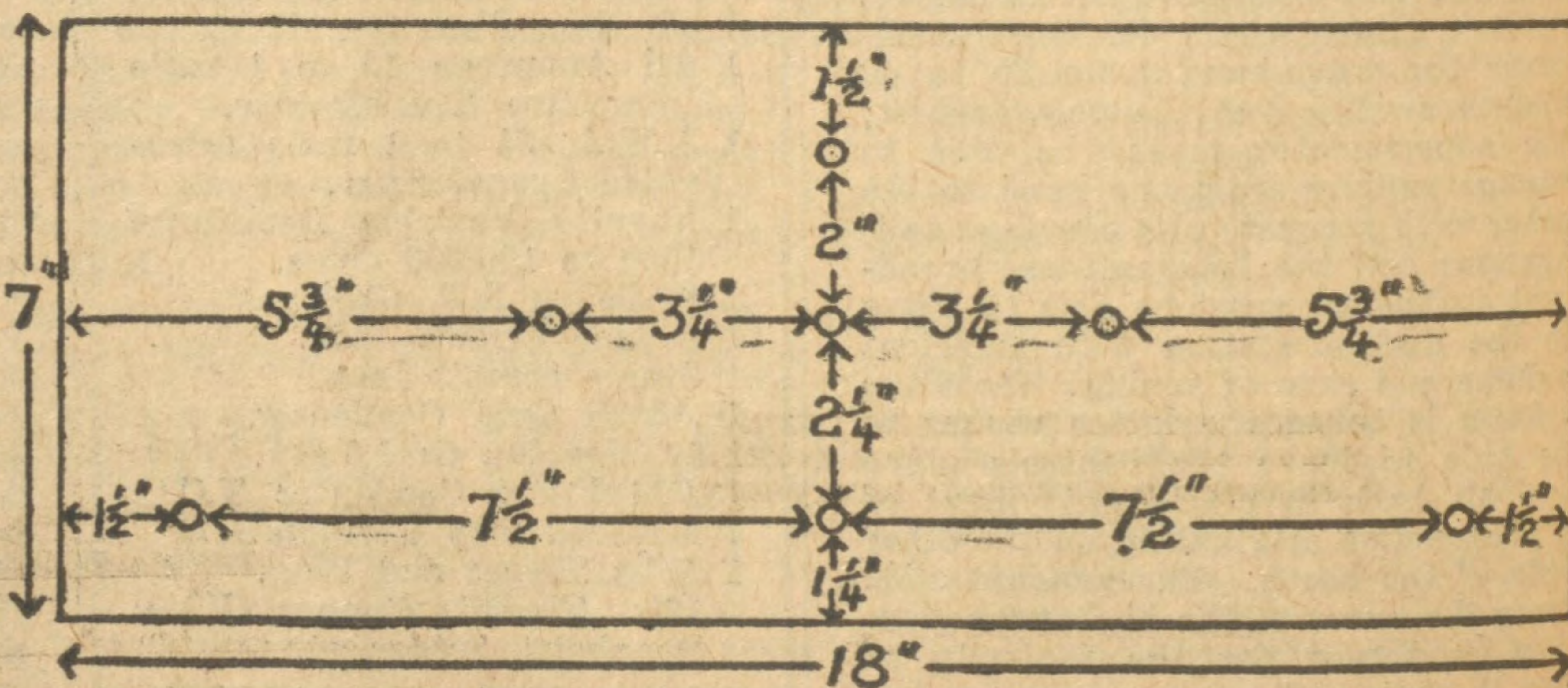
Fig. 3.—The wiring diagram and plan view of the assembly.

wire wound Solenoid, and some commercial makes of mounted coil units. Since this article was originally written, many coil units have made their appearance, which will serve the purpose admirably in this receiver, but it is proposed to describe the original home constructed coils for those who may desire to use them; of the commercial products—the Radiokes is recommended. For the construction of home-made coils the Airzone short wave coil material was chosen, and cannot be excelled. The wire used, No. 16 D.C.C., is well spaced, and the former material, a Cellulose composition, is negligible in dielectric loss. The condenser chosen for tuning control would be hard to beat in every feature. This is the "Gecophone" S.L.F. improved model "low-loss slow motion." For fine and accurate tuning, positive action, and absolute lack of "back-lash," it is unexcelled. The beautifully constructed reduction gearing is a friction device perfectly silent in action. This desirable quality is appreciated in the neighbourhood of 10 to 26 metres. The condenser obtained having a capacity of .0003 mfd., is not used as such, and required a little "doctoring" to enable us to utilise it to the best advantage. This "doctoring" consists of entirely dismantling the condenser—stripping down and re-assembling with four rotor and three stator plates—all double spaced. This last is important, and for those not experienced in such work, the writer recommends the purchasing of the condenser either at the British General

Electric Co., Ltd., Clarence St., Sydney, or Messrs. Colville Moore, Ltd., 10 Rowe St., Sydney, where the job will be kindly undertaken "while you wait." This re-assembling calls for a fair amount of skill, as the condenser is a delicately balanced piece of work and trouble would only result from re-assembling by inexperienced hands. The condenser is marked C1 in the theoretical circuit diagram. C2, the regeneration control or "throttle" condenser, may well be a Gecophone .00025 as purchased, but in the receiver described C2 is a .00025 S.L.F. condenser controlled by an Emmco Vernier De Luxe dial. The first intervalve transformer is an "all American" of 10 to 1 ratio. This is found to be an ideal transformer, for the first stage of amplification, and contrary to expectations, does not distort to any noticeable degree what-

ever, when the receiver is operating on telephony, strong or weak. Transformer No. 2 for the second stage of audio amplification is an AWA of $3\frac{1}{2}$ to 1 ratio. Across the secondary of this transformer is "shunted" a smooth running variable resistance. This is a Royalty Electrad, variable from 1,500 to 100,000 ohms. resistance. This acts as a volume control for loud speaker reception. When wearing headphones, it functions as an excellent extraneous noise filter on the last stage of amplification. For normal headphone work the first stage of amplification only is used, but when it is desired "to boost" a weak signal, this filter resistance gives a better signal strength over "noise level" ratio. Again a useful feature from 10 to 26 metres! Two telephone jacks are required. A double circuit jack for the first, and a single circuit jack for the second. The radio frequency choke marked "R.F.C." is a Radiokes production, now well known for use in many circuits. The Radiokes choke is equally efficient on all wave bands and owing to its construction is free from resonance with harmonics of the aerial earth system, thus avoiding "blind spots" in the receiver. Condenser C3 is an Electrad .00025 grid condenser used with a grid leak of 8 to 10 megohms; C4 is a .006 mfd. by-pass condenser, and is not actually necessary, but may be of advantage in minimising noise from an indifferent B battery. The Mullard valves used with the original "Go-Getter" receiver were emphasised as being the only ones suitable, but in the meantime, many other types have been found efficient. The following combinations will be found suitable:—

| | Detector. | First Audio | Second Audio. |
|-----------|-----------|-------------|----------------|
| Mullard | PM3 | PM3 | PM4 (Original) |
| Philips | A4L5 | A4L5 | B406 |
| Cossor | 410HF | 410LF | 410P |
| Osram | DEL410 | DEL410 | DEP410 |
| Radiotron | UX201A | UX201A | UX112 |
| TKD | VT128 | VT128 | VT128. |



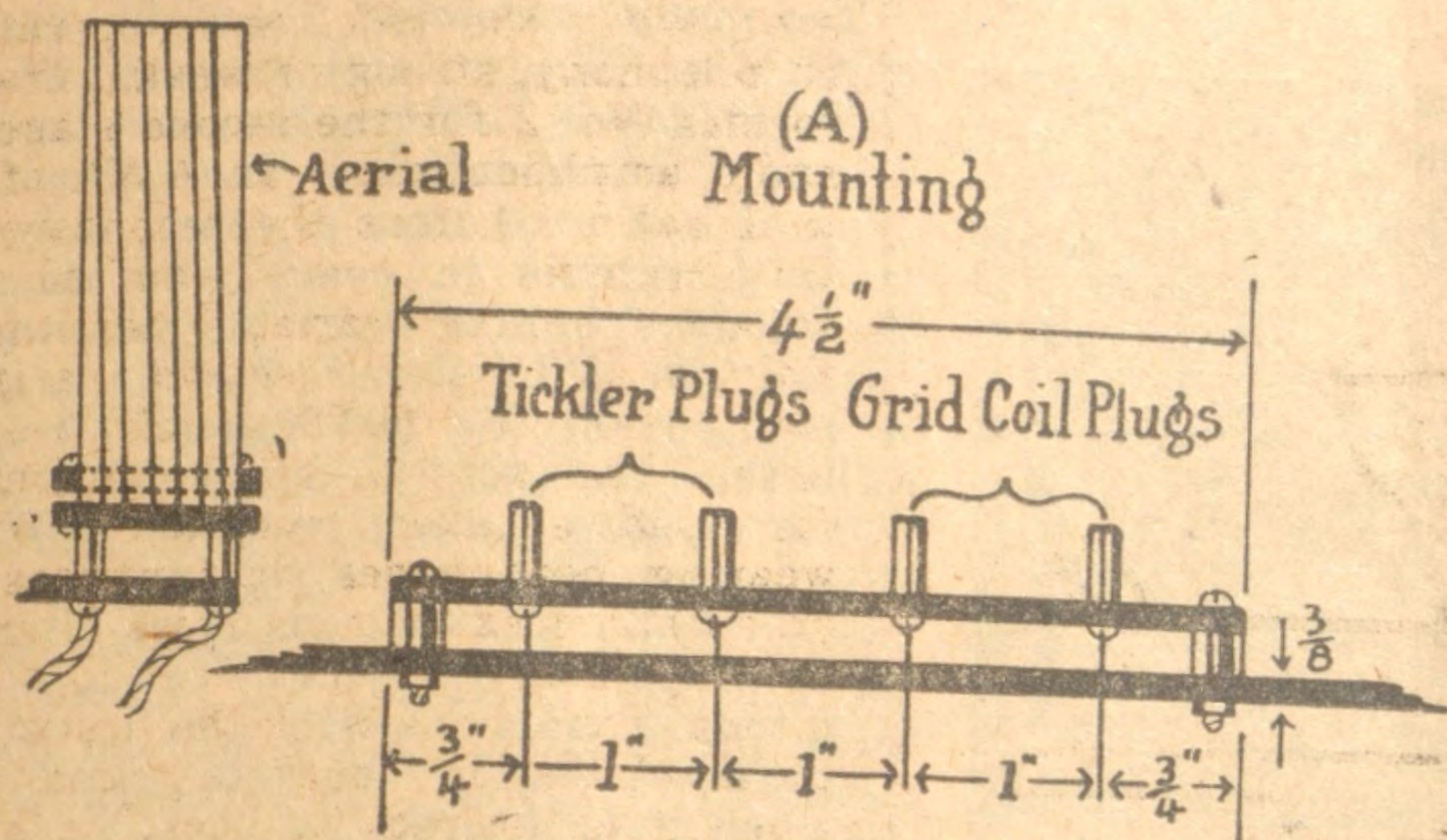


Fig. 4. — (a) This shows the relative distances of the coil sockets; (b) the completed coil unit, which fits into the mounting shown in Fig. 4a; (c) the aerial coupling coil, which is mounted on a swivel.

Some of these valves are inclined to be microphonic, and for this reason a Benjamin UX anti-vibration socket is used for the detector. The sockets for the amplifiers may be plain but good. As the receiver is intended to be used with 4 volt valves, a rheostat of 30 ohms resistance is used to control the detector only. The amplifiers are fed straight from the supply for the filaments. The battery switch is placed in the A positive lead as shown. To commence construction and assembly of the receiver, obtain two Dilecto or Formica panels, measuring 18 x 7 x 18 x 8 in. respectively, together with two "Benjamin" sub-panel mounting brackets. The panel measuring 18 in. x 8 in. becomes the base panel. When mounted, this will be 2 3/8 in. high from the base of the front panel, as shown in Fig. 2. Looking at the panel from the front (Fig. 2) the disposition of the controls is shown with measurements. Fig. 3 shows a plan view of the assembly, which with Fig. 2 is self-explanatory. A rigid coil unit mounting and corresponding units will now require construction.

From Messrs. Colville Moore were obtained six of the solidly-made sockets for coil mounting, as used in the "Colmovox" short wave receiver. With 14 plugs to suit, a little scrap Dilecto, and 8 1-8 in. screws 1 in. long, with nuts, an excellent coil-mounting and plug-in units can be constructed very easily. The mount-

ing is made from a strip of Dilecto 4 1/2 inches long by 1 in. wide, with the four sockets spaced 1 in. between centres, as shown in Fig. 4 (a) and M in Fig. 3. When screwing the plug sockets down after drilling the Dilecto strip, a tinned soldering tab slipped under the head of each screw will simplify wiring later on. Now place the tab under the socket nearest the aerial coil in the opposite direction to the others, as shown. This is the lead from "tickler" to plate of detector. The mounting is attached to the base panel by means of two Dilecto distance pieces 3-8 in. thick and two screws 1 in. long.

Assuming the mounting in place, the coil unit construction follows. For each unit, three pieces of Dilecto strip, 4 in. x 1/2 in., 4 plugs and two 1 in. x 1-8 in. screws and nuts are required.

Drill one strip to correspond with the socket centres on the mounting, and screw the four plugs in position, again placing a soldering tab under each screw head. 5-16th inch from each end of the strip, drill a hole to take the 1-8 in. screws. Drill another strip to take the 1-8 in. screws only, and place this on top of the bottom strip holding the plugs.

Having cut the coils from the "Airzone" material to the table shown below, place the required number of turns for grid and tickler coil in position, drill the remaining strip as the second, and clamp the coils down with the top strip, as shown. Solder the

ends of the coils, keeping the leads as short as possible, to their respective tabs on the plugs, and the completed unit is ready, as shown in Fig. 3 (b). To cover the bands from 15 to 90 metres with these units, using the "Gecophone" condenser, as described, the coil data is as follows:—

| Wavelength Range. | Grid Coil. | Tickler Coil. |
|-------------------|------------|---------------|
| 15 to 30 metres | 4 turns | 3 turns |
| 28 to 47 metres | 9 turns | 3 turns |
| 45 to 90 metres | 20 turns | 10 turns |

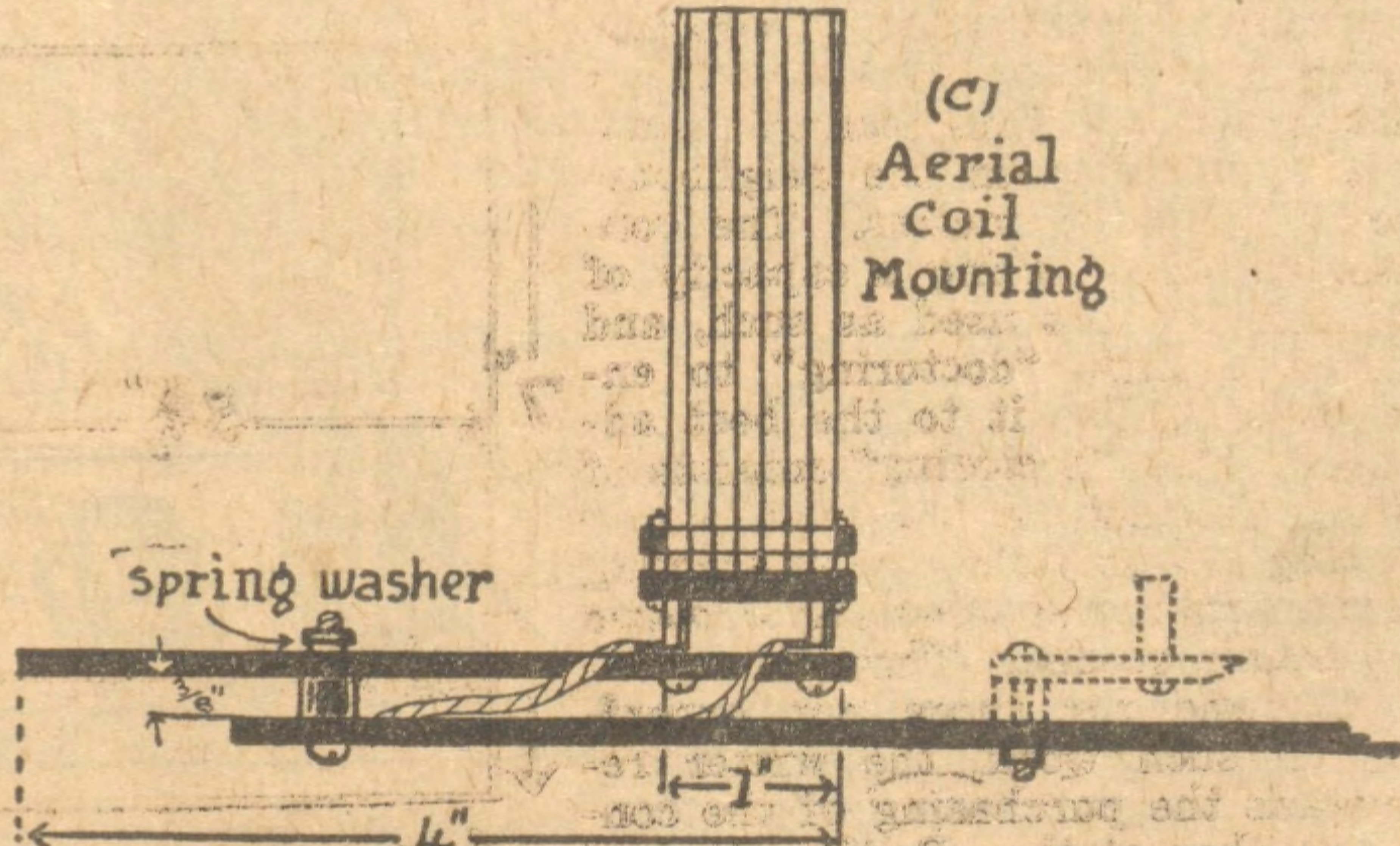
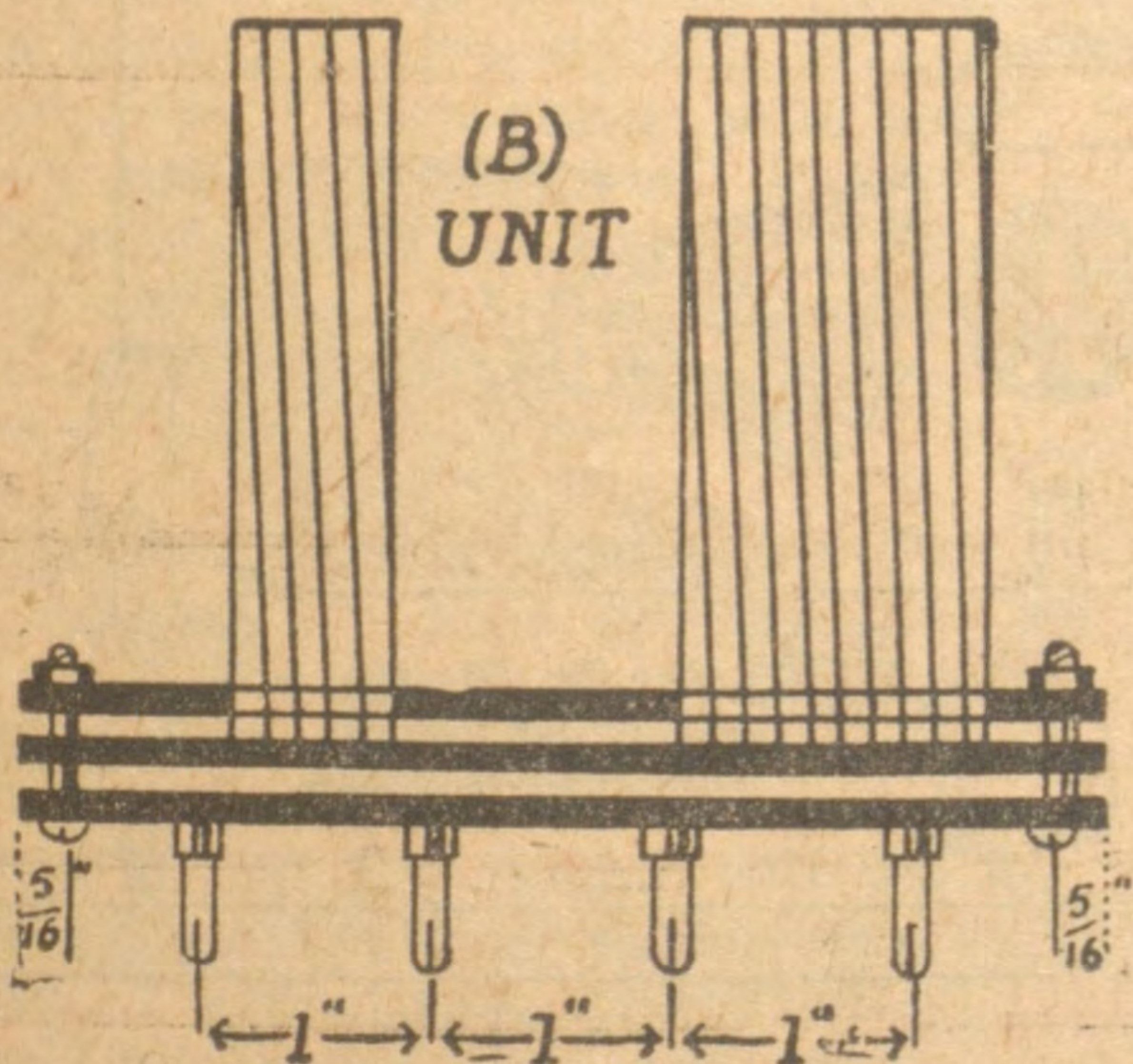
In the last unit, ranging from 45 to 90 metres, the coils used are "Duric" ordinary, "plug-in" coils, but de-mounted and then re-assembled on the unit in the same way as the "Airzone" coil material.

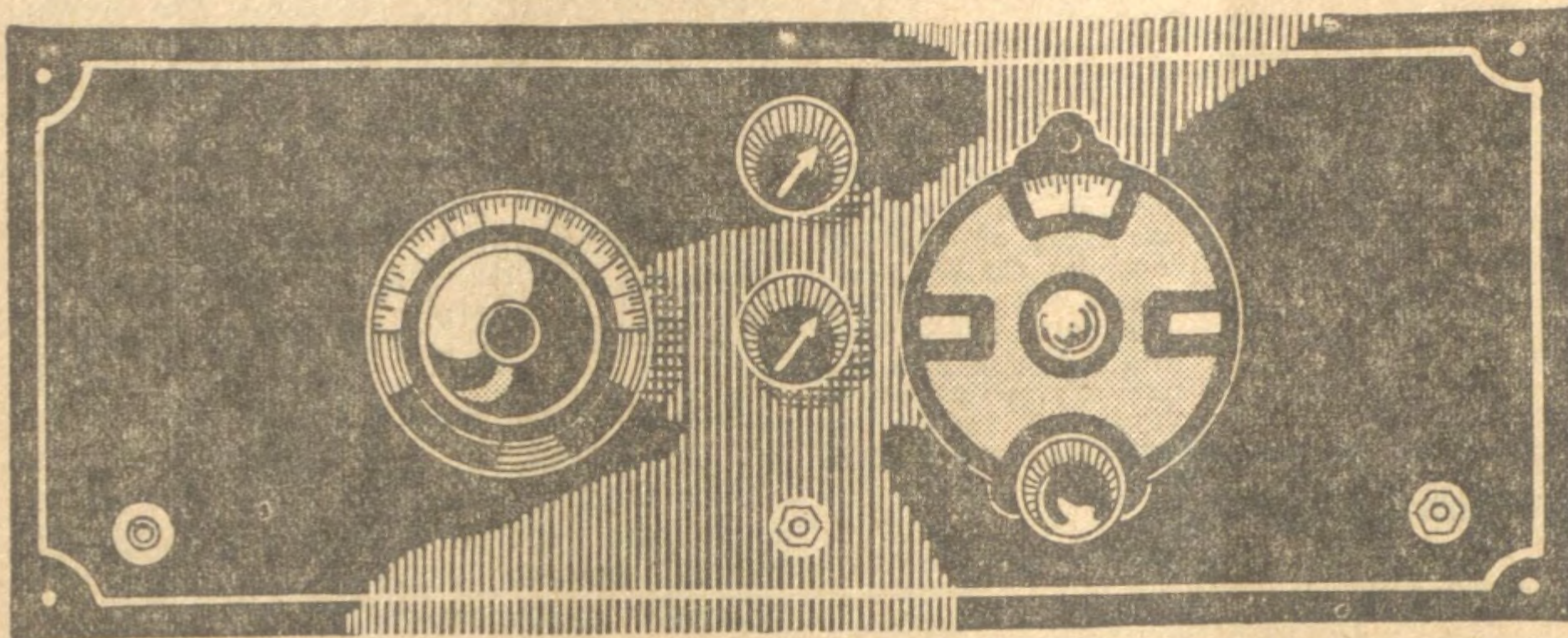
Units can be made to cover the whole bands up to 250 metres, if so desired, by mounting ordinary coils of the "plug-in" variety in this way.

Next, the aerial coupling coil. This is shown in Fig. 4 (c) and consists of 7 turns of the "Airzone" material mounted in a similar manner to the units, but arranged on a Dilecto swivel arm to bring it into variable coupling with the tuning unit. This 7-turn coil is found to be correct in inductance for the efficient covering of all the short wave bands used.

It will be noticed that the tickler is placed at the filament end of the grid coil between the grid coil and the aerial coil. The tickler is definitely and absolutely immovable from its relative position to the grid coil, as will be seen obviously from all details. The reason for placing the tickler between aerial and grid circuits is that by so doing it helps to avoid any slight detuning effect of the regeneration control, and gives a decided increase in signal strength.

The aerial coil mounting is self explanatory, being made in the same manner as the tuning units. The Dilecto mounting arm is arranged to swivel by means of a "spacer"—a screw through the base panel and a spring washer. Flex leads are taken from soldering tabs to aerial and earth terminals respectively. It will be noticed in Figs. 1 and 3 that a flex lead marked E1 is arranged with





a plug to connect with a socket connected to the earth terminal.

This lead is from the filament side of the grid circuit, and is found to be in this case, a decided advantage. Signal strength is again "helped up the road" considerably by thus earthing the positive filament supply.

When the static fiend is too unruly, this lead is disconnected from the earthing socket, and seems to give a better signal to static ratio. This aspect is very justifiable, as it is noticed that the amplitude of static disturbances seems to be greatly enhanced by earth currents induced by thunder storms taking place between clouds and the earth's surface.

The plug merely fits into a hole near the earth socket when not in use. The two telephone plug jacks are placed, as shown—sub-panel—together with the filament switch, the wiring to these being under the base panel, out of sight. The receiver is wired throughout with 16 tinned copper wire, and where leads which are desired safely spaced of necessity pass rather close to each other, short lengths of "spaghetti" covering are included.

All leads are kept as short as possible, and wherever feasible taken under the base panel.

Wire the filament circuits first, not forgetting the filament switch in the A positive lead. Next grid and tickler circuits, 1st audio and 2nd, finishing on the jacks. Seven terminals only are required, as shown. The details of wiring, lead for lead, are unnecessary, as the diagrams and illustrations show all that is required in this way. Should the reader be doubtful about any detail the author will be only too pleased to give any information required. And now a few words as to performance in justification of the instrument.

The regeneration control has extremely little detuning effect on the signal. The signal is practically constant in frequency when moving the regeneration control from zero to 2-3rds full capacity. Tuning and

holding a signal, whether telephony or telegraphy, is as simple on 15 metres as on 85 metres.

On the original tests of the receiver last year, no difficulty was experienced in putting 2XAD (the short wave station of WGY, New York) on the loud speaker. Since the advent of 5SW, England, this station is received almost like a local broadcast station at its best periods. Nowadays there are many international broadcast stations located in the wavebands from 12 to 80 metres and the constructor of this receiver will find a host of distant transmissions to gratify his lust for DX. In fact, whatever is on the air on the amateur wavebands outside of "skip-distance" and radio "fogs," the receiver "goes out and gets it." Provided it is kept free from dust and sea air, a receiver of this calibre using "Amplion" Carboncels for filament supply, and reliable "B" battery, can be installed and left for 8 to 10 months with the knowledge that it will always be ready, and worthy of its name.

A short-wave receiver is a very easy article to construct, and put into some sort of operation, but a really efficient short-wave receiver requires a little forethought and care.

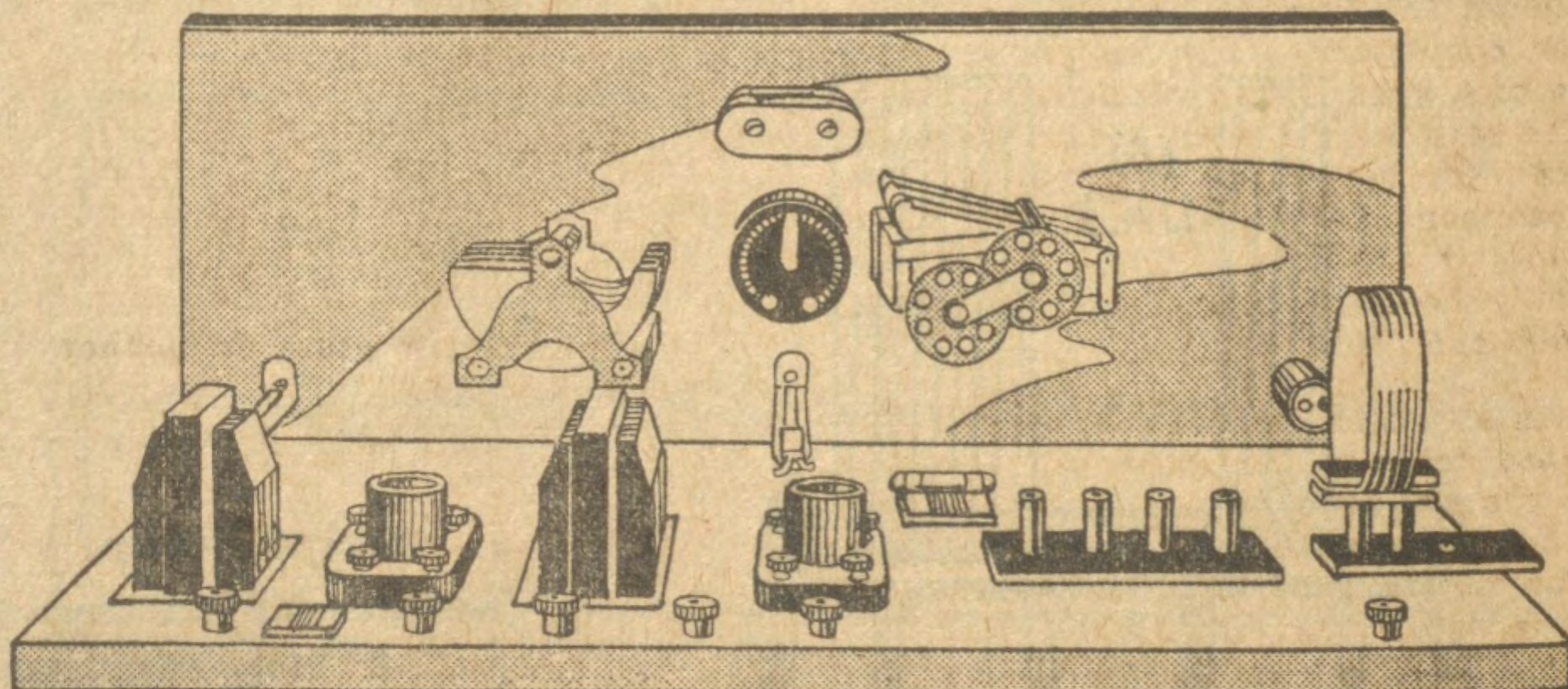
Too many receivers are in use employing "floppy" coil systems, unsuitable valves, incorrect values, and a host of other defects. The solenoid type of coil used here is found to be more justifiable in every way than the "Basket-weave" coil. Signals are spaced out with ease. The natural wavelength of the coil cannot alter, as is the case with the usual "basket-weave" owing to collection of moisture on the dubious insulation between turns; and the appearance of the finished Solenoid job is much more presentable. Many will be inclined to criticise the regeneration control by throttle condenser in favor of resistance control.

Whilst resistance control has one point in its favor, that of absolute constancy of frequency in the grid circuit, the throttle system has the advantage of "building up" the signal to a greater degree at the point before oscillation commences.

In this article super technicalities are not indulged in. It is intended for the average short wave enthusiast and devotee. Many refinements "De Luxe" in the design could be offered, but that would immediately place the proposition beyond the scope of the average pocket.

As it is, the receiver will oscillate smoothly over the whole of the grid tuning condenser range, using one turn 2½ inches in diameter respectively for grid and tickler "coils" with a separation of two inches between.

Practically no hand capacity is in evidence on this ultra-high frequency, so that the necessity for elaborate shielding of the receiver for work on the amateur bands is at once ruled out. Complete shielding would be of advantage in minimising power-leak interference from lighting mains and other sources, but this necessitates covering, in addition to a totally metal shrouded instrument. A final word. Almost any apology for an aerial will give good results on this receiver; even a piece of flex lying on the table or a loop; but an aerial



An Inexpensive Trickle Charger

It is certain, despite the advent of A and B eliminators and A.C. tubes, that the accumulator as a source of filament supply, will be, like the compound marine engine, a reliable and much used friend for many years to come. The why and wherefore of charging accumulators from one's own home lighting supply will interest radio enthusiasts indefinitely. The accumulator will always have its place and uses in radio, and as the reader will be conversant enough through the medium of this and other journals with the care of accumulators; we are describing in response to a number of queries a suitable trickle charger which can be constructed by the average handy-man. The essentials of trickle charging are in a general sense well understood, and very simple to comprehend. Primarily, it is very important that trickle charging must not be carried out at too high a rate, particularly with a low capacity of accumulator. If this mis-use is indulged in, the material in the accumulator plates will

(Continued from previous page.)

well up in the air, and clear of buildings, will give a lot of help to that distant telephone station. For telegraphy reception, practically any form of aerial will suffice, as telegraphy signals are built up to a large degree by the sensitiveness of the receiver. With a poor aerial system, carrier waves are easily received, but the percentage of modulation seems well below audibility. Over-amplifying a weak 'phone signal only results in a lot of noise "background."

The average transmitting man has available a good receiving aerial, but the broadcast listener may be one of those "weird and wonderful" affairs so often seen. So again, the better the aerial the better the result. Telephones for normal use are a matter for conjecture. The telephone must be of a good, sensitive, reliable make. The man with a deep pocket may use the very best, the "Browns" A type headphone, for instance, or the "Baldwin"; if 4000 ohm. 'phones are available, the better are the results over 2000 ohm. 'phones.

In any case, do not blame your finished receiver for poor performance if you are using a pair of headphones which have been long due for relegation to the junk-box. In conclusion, it is hoped that the reader will find this, not "just another short-waver," but one of exceptional performance, and well worth the time and money spent.

disintegrate, especially so in the positive plate. If the accumulator is fully charged, and the trickle charger still left on, the current supply to the accumulator will be wasted in the form of heat. This heat will not be of a dangerous quantity so far as the sense of touch is concerned; but if this continues for a number of weeks or so, the accumulator will inevitably suffer. It is imperative, therefore, to disconnect the charger if the accumulator is to be left idle for a week or more, or as an alternative, to insert a suitable resistance in series with the transformer primary actuating the charger. This may be a 10 watt lamp as used for house lighting. A charging rate of .1 to .25 amperes will not harm the accumulator, so that by means of this additional resistance, the charging may be continued indefinitely over an idle period. There are various forms of trickle charges, namely the Electrolytic, the Bulb or tungar type, and the contact or "dry" type rectifier. It is with the first type, a form of Electrolytic charger, that we propose to deal. This will be better known to those familiar with radio slang as the "slop-jar" or aluminium lead rectifier. In the diagram is shown the circuit details of such a rectifier or charger. The first and most important item is a step-down transformer, to reduce the 240 volt house supply to a lower value. The transformer is also indirectly a safety guard to protect the rectifier circuit by insulating it from the power supply. The next item is the rectifier cell itself, and at the point marked R in the transformer input, sometimes a resistance when the transformer is not provided with taps; in order to vary the charging rate. The diagram shows the transformer secondary arranged with tapings, but as the reader may possibly use an untapped transformer, the resistance point R will be found invaluable. The following are the parts needed for the construction of the charger:

- 1-50 watt bell ringing transformer (obtainable at most electric supply stores). If fitted with varying secondary taps, so much the better.
- 1-One quart plain glass or earthenware jam jar.
- 1-Strip of pure aluminium 5in. x 1in. x 1-32in.
- 1-Sheet lead strip 5in. x 1in. x 1-16in.
- 1-Batten lamp-holder for lamp resistance R.

The aluminium and lead strips are bent over the mouth of the jar so that

they will hang down on opposite sides without touching the bottom. Drill a hole in each strip, and fill the jar with a medium solution of broax and water. The brand of borax known as "20 mule team borax" is particularly satisfactory.

Dissolve a fair quantity of borax in a quart of warm distilled water and pour over the solution a layer of fine quality lubricating oil. The aluminium element of the jar is connected to the positive terminal of the accumulator and the lead to the transformer as shown. Before the rectifier can be operative it is necessary to do what is known as "form the plates." The forming process deposits a film on the elements which allows the current to flow in the one direction only. This is done by shorting the positive and negative output leads together for a moment or two with the accumulator disconnected. If a small range ammeter is available, connect this in series with the cell and the battery, and measure the charging rate for each secondary voltage; if tapings are provided on the transformer. If the lowest charging rate is .25 ampere, then connect the lamp in series with the transformer primary, to reduce the rate to .1 ampere. It should be noted that if the lamp socket is wired permanently in series with the primary, a piece of wire should be shorted across it, when forming the rectifier. Alternatively a shorting plug may be used. A 10 watt lamp should be found about right to effect the reduction of charging rate. Finally, if the maximum secondary voltage does not give $\frac{1}{2}$ of an amp. with no resistance in circuit, then the rectifier cell is at fault. In this case it may possess a too high internal resistance, due to improperly formed elements, a weak solution, or impurities in the aluminium or solution. Chemically pure aluminium must be used, apart from which it must be perfectly clean and free from grease when immersed in the solution. If all these details are scrupulously attended to, then the reader will find himself in possession of a piece of apparatus which will be a real adjunct to his radio den.

THE OTHER DAY a business man at Vancouver rang up his London representative. This was the "longest" distance call by wireless telephone recorded. To accomplish the connection it took only 6 minutes, the words were clearly audible on both sides of the 7000 mile distance, and the call that lasted 4 minutes cost £15.

Broadcasting Stations

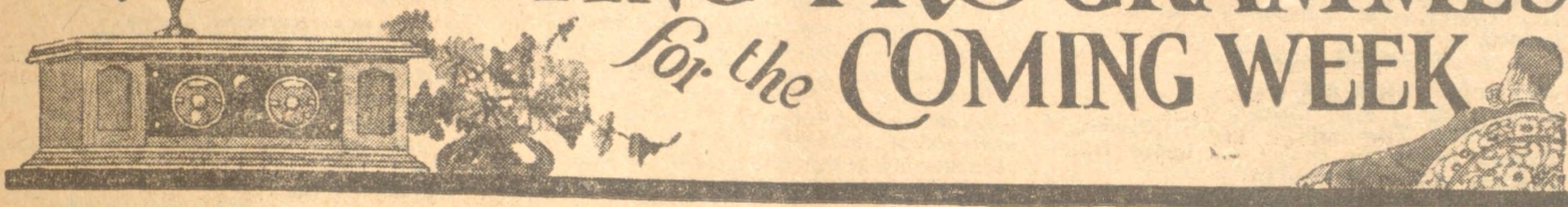
| AUSTRALIA. | | | NEW ZEALAND. | | | EUROPE. | | |
|--|------|------|--|--------|-------|---|----------------|------|
| New South Wales. | | | Metres. Watts. | | | Metres. Watts. | | |
| 2FC—2FC Limited, Market St., Sydney | 442 | 5000 | 1YA—Radio B'casting Co. of N.Z., 419 Queen St., Auck., | 333 | 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, Jereeninging, Batavia | 220 | 40 |
| 3DB—Druleigh Business College, Melb. | 255 | 500 | 5XX—British Broadcasting Co., Daventry | 1604.3 | 5000 | PHILIPPINE ISLANDS. | | |
| Queensland. | | | UNITED STATES OF AMERICA. | | | KZRM—Radio Corp. of The Philippines, Manila, Philippine Islands | 413 | 1000 |
| 4QG—Queensland Govt. Radio Service, Brisbane | 385 | 5000 | KDKA—Westinghouse Elec. and Mfg. Co., East Pittsburg, Pa. | 315.6 | 50000 | KZRQ—Radio Corp. of the Philippines, Manila, Philippine Islands | 400 | 1000 |
| 4GR—Gold Radio Service, Margaret St., Toowoomba | 294 | 100 | KFI—Earle C. Anthony Inc., 1000 So., Hope St., Los Angeles | 468.5 | 5000 | KZKZ—Radio Corp. of the Philippines, Manila, Philippine Islands | 270 | 500 |
| South Australia. | | | KGO—General Electric Co., Oakland, California | 384.4 | 5000 | KZIB—Radio Corp. of the Philippines, Manila, Philippine Islands | 260 | 500 |
| 5CL—Central B'casters, Ltd., 59 Franklin St., Adelaide | 395 | 5000 | KOA—General Electric Co., 1370 Krameria St., Denver, Colo. | 325.9 | 5000 | INDIA. | | |
| 5DN—5DN Pty., Ltd., 2-4 Montparier St., Parkside | 313 | 500 | WBZ—Westinghouse Elec. Co., Hotel Kimball, Springfield, Mass. | 333.1 | 15000 | 5AF—Indian States and Eastern Agency, Calcutta, India | 425 | 1500 |
| 5KA—Sport Radio Ltd., 51 Kintore 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, Chelmsford, England | 24 | PCJJ—Phillips' Experimental Station, Hilversum, Holland .. | 30.2 | VMC—Samoa | 33 |
| 2YT—Poldhu, England, | 25, 32, 92, 94 | PCLL—Phillips Lamps, Ltd., Kootwijk, Holland | 32.5, 46 | 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 Vereeninging, 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, Annapocosta 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, 31.3, 49 |
| WLW—Crossley Radio Co., Cincinnati, U.S.A. | 52 | IDO—Ido Radio, Italy | 33.5 | VIS—Amalgamated Wireless (A/sia, Ltd.), Sydney | 20, 32, 50, 51 |
| KDKA—Westinghouse Elec. and Mfg. Co., East Pittsburg, U.S.A. | 63.5, 42 and 14 (8XK and 8XP). | SOUTH AFRICA. | | VIP—Amalgamated Wireless (A/sia, Ltd.), Perth | 21, 32, 50 |
| WJZ—WJZ Radio, Bound Brook, N.J., U.S.A. | Various wavelengths | JB—Johannesburg Broadcasting Co., Cape Town, South Africa | 20 and 25 | VII—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, Germany | 19 metres | MTN—S.S. "Tahiti" | 37, 23 |
| | | SUVA. | | GDVB—S.S. "Aorangi" | 37, 23 |
| | | VPD—Suva Radio, Amalgamated Wireless (A/sia), Ltd. | 37.5 | VZDK—S.S. "Jervis Bay" | 37 |
| | | | | PMZ—S.S. "Tasman" | 23, 51 |
| | | | | ARCX—S.S. "Nielsen Alonso" .. | 28.4 |

BROADCASTING PROGRAMMES

For the COMING WEEK



Friday, May 11

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

MORNING SESSION.

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

MIDDAY SESSION.

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

AFTERNOON SESSION.

- 3 p.m.—"Big Ben" and programme announcements.
- 3.5 p.m.—A record recital.
- 3.20 p.m.—Helen Morris, soprano: "Good Morning, Brother Lunsaine" (Liza Lehmann).
- 3.24 p.m.—Muriel Watt, contralto: "Soul of Mine" (Barns).
- 3.28 p.m.—Madame Evelyn Grieg will continue her series of talks: The Art of Listening to Music; No. 3. "Great Violins and Great Violinists."

- 3.43 p.m.—Aldyth Hern, soprano: "Carmena" (Lane Wilson).
- 3.47 p.m.—Studio music.
- 3.55 p.m.—Helen Morris, soprano: "American Indian Song" (Cadman).
- 4 p.m.—"Big Ben." A reading.
- 4.10 p.m.—Muriel Watt, contralto: "When Song is Sweet" (Sans Souci).
- 4.15 p.m.—Popular records.
- 4.30 p.m.—Netta Mullarkey, mezzo.
- 4.35 p.m.—Studio music.
- 4.40 p.m.—Aldyth Hern, soprano: "Somewhere in this Summer Night" (Molly Carew).
- 4.45 p.m.—Stock Exchange, third call.
- 4.47 p.m.—Netta Mullarkey, mezzo.
- 4.50 p.m.—Studio music.
- 5 p.m.—"Big Ben." Close down.

EARLY EVENING SESSION.

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

NIGHT SESSION.

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

MUSICAL NUMBERS.

OPENING CHORUS.

- Trio, "Only a Kiss"—Frederick Bentley, Yvonne Banvard, and James Hughes.
- Sextette, "Finaletto"—Harriet Bennet, Reginald Dandy, Noel Allan, Lou Vernon, Mabel Lambeth and Stephanie Deste.
- Empire March and Gavotte.
- Song and Dance, "Minuet of the Minute"—Harriet Bennet and Frederick Bentley.
- Dance, "Wanda Waltz"—Stephanie Deste.
- Bridal Procession.
- Song, "Door of my Dreams"—Harriet Bennet and Chorus.
- Bridal Finale.
- Finale Ultimo.
- 10.57 p.m.—From the Studio: To-morrow's programme and late news.
- 11.0 p.m.—"Big Ben." From the Ambassadors: The Ambassadors' Dance Orchestra, conducted by Al Hammet.
- 11.45 p.m.—National Anthem. Close down.

2BL, SYDNEY.

Broadcaster's Ltd.

Wave Length, 353 Metres.

FRIDAY, 11th MAY, 1928.

EARLY MORNING SESSION.

8 a.m. to 9 a.m.

MORNING SESSION.

- 10.30 a.m.—G.P.O. Clock and chimes. Musical programme from Studio.
- 11 a.m.—G.P.O. Clock and chimes. Talk on "Basket Ball," by Miss Gwen 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.
- 12.10 p.m.—Information, mails, shipping, and port directory.
- 12.13 p.m.—Boats in call by wireless.
- 12.15 p.m.—Fruit Market report.
- 12.17 p.m.—Vegetable market report.
- 12.19 p.m.—London Metal Market report.
- 12.21 p.m.—Dairy, Farm, and Produce Market report.
- 12.24 p.m.—Forage Market report.
- 12.26 p.m.—Fish Market report.
- 12.28 p.m.—Rabbit Market report.
- 12.30 p.m.—H.M.V. Gramophone Recital.
- 1.30 p.m.—G.P.O. Clock and chimes. Talk to children, and special entertainment for children in hospitals.
- 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," by Miss Kathleen Jordan.
- 4 p.m.—G.P.O. Clock and chimes. Civil Service Stores Trio.
- 4.15 p.m.—Talk on "The Women of Ancient Rome."
- 4.35 p.m.—Musical programme from the Studio.
- 4.50 p.m.—News from the "Sun."
- 4.57 p.m.—Features of 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. Australian Mercantile Land and Finance Co's report.
- Weather report and forecast, by courtesy of Government Meteorologist.
- Producers' Distributing Society's Fruit and Vegetable Market report.

Stock Exchange report.

Grain and Fodder report ("Sun").

Dairy Produce report ("Sun").

N.R.M.A. report.

7.15 p.m.—Country news, from the "Sun."

7.30 p.m.—Talk on "Gardening Science," by Mr. Cooper, Park Superintendent, City Council.

EVENING SESSION.

8 p.m.—G.P.O. Clock and chimes.

Broadcasters' Topical Chorus.

8.3 p.m.—The Rose Bay Winter Garden Theatre Symphony Orchestra, under the direction of Mr. Lionel Hart.

8.13 p.m.—Miss Dulcie Starkey, soprano.

8.20 p.m.—Rose Bay Winter Garden Theatre Symphony Orchestra.

8.26 p.m.—Mr. Stoffel Bezuidenhout, baritone.

8.33 p.m.—Instrumental solo.

8.39 p.m.—Rose Bay Winter Garden Theatre Symphony Orchestra.

8.46 p.m.—Mr. Phil Mountain, comedian.

8.53 p.m.—Rose Bay Winter Garden Theatre Symphony Orchestra.

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.—The Sporting Editor of the "Sun" will talk on the prospects of Saturday's racing.

9.16 p.m.—Rose Bay Winter Garden Theatre Symphony Orchestra.

9.23 p.m.—Miss Dulcie Starkey.

9.30 p.m.—Rose Bay Winter Garden Theatre Symphony Orchestra.

9.37 p.m.—Instrumental solo.

9.43 p.m.—Mr. Stoffel Bezuidenhout.

9.50 p.m.—Rose Bay Winter Garden Theatre Symphony Orchestra.

9.57 p.m.—Mr. Phil Mountain.

10.4 p.m.—Rose Bay Winter Garden Theatre Symphony Orchestra.

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.

2 UW, SYDNEY

Sandel Radio, Ltd.

Wave Length, 267 Metres.

FRIDAY, 11th MAY, 1928.

EVENING SESSION.

7 p.m.—Studio items.

7.10 p.m.—Where to go session.

7.14 p.m.—Dinner music.

7.40 p.m.—Instrumental and vocal items.

8 p.m.—News, mails and shipping.

8.15 p.m.—Vocal items from studio.

8.45 p.m.—Weather report.

8.48 p.m.—Dance music and request numbers.

10 p.m.—Announcements and close down.

3LO, MELBOURNE

Broadcasting Co. of Aust.

Wave Length, 371 Metres.

FRIDAY, 11th MAY, 1928.

EARLY MORNING SESSION.

7.15 a.m. to 8.15 a.m.

MORNING SESSION.

11 a.m.—3LO's CULINARY COUNSELS, or how to Create Creature Comforts with a minimum of cash.

DRY CURRY.

2lb. tender beefsteak or veal.

2oz. butter.

2 tablespoons curry powder.

1 apple.

1 onion.

Lemon juice.

1 Dessertspoon chutney.

1 Teaspoon red currant jelly.

Salt.

METHOD.—Peel and slice apple and onion. Put butter in stewpan and fry onion, apple and curry powder. Add the meat, cut into very small pieces, the chutney and the jelly. Stir all well together, and cook very gently until the meat is quite tender. Half an hour before serving, add the salt and lemon juice. Serve on hot dish with a border of well-cooked rice, and garnish with lemon and yolk of hard-boiled egg. (If cooked in double saucepan will prevent burning.)

AIDS TO SUCCESS IN COOKING.

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

11.5 a.m.—VEGETERIAN COOKING:

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

11.20 a.m.—Musical interlude.

11.25 a.m.—"AU FAIT":

"The Psychology of Clothes."

11.40 a.m.—Musical interlude.

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

MIDDAY NEWS SESSION.

12 noon.—Melbourne Observatory time signal.

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

12.20 p.m.—THE GYPSY PLAYERS:

"By the Lake of Geneva" (Bendel).

12.30 p.m.—ELSIE DAVIES, soprano:

"Love has eyes."

"Annie Laurie."

12.37 p.m.—Stock Exchange information.

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

Duet, "Dance des Lanterns."

12.50 p.m.—THE GYPSY PLAYERS:

"La Belle France" (Laurendeau).

1 p.m.—Melbourne Observatory time signal.

1.1 p.m.—VICTOR BAXTER, tenor:

"The Garden of Sleep" (De Lara).

"The Little Hills" (Gleeson).

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

1.15 p.m.—THE GYPSY PLAYERS:

"Gems from South America" (Schmid).

1.25 p.m.—ELSIE DAVIES, soprano:

"A Dream within a Dream" (Poulet).

1.32 p.m.—THE GYPSY PLAYERS:

"Dance Orientale" (Lubomisky).

1.37 p.m.—VICTOR BAXTER, tenor:

"By the Waters of Minnetonka" (Lieurance).

"Marcheta" (Schertzing).

1.45 p.m.—Close down.

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

AFTERNOON SESSION.

2.15 p.m.—THE GYPSY PLAYERS:

"Two Guitars" (Horlick).

"An Old Portrait" (Crist).

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

2.45 p.m.—DOROTHY ROXBURGH, viola:

"Romance" (Goltermann).

2.53 p.m.—THE GYPSY PLAYERS:

"Magic of Love" (Wania).

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

3.15 p.m.—THE STATION ORCHESTRA:

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

"If you look in her Eyes."

"Everybody ought to know it."

3.23 p.m.—PARKIN.

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

3.45 p.m.—THE STATION ORCHESTRA: Selection, "A Connecticut Yankee" (Rogers).

PIANOFORTE RECITAL.

3.55 p.m.—HENRI PENN:

"Melodie" (Rachmaninoff).

"The Sea" (Palmgreen).

"Rhapsodie, No. 13" (Liszt).

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

"Harmonylarity."

4.25 p.m.—THE STATION ORCHESTRA:

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

4.30 p.m.—FRANK AND FRANCIS LUIZ:

Duet, "Akahi Oi."

Song, "A song to Hawaii."

Steel guitar, "Hawaiian Hotel."

Duet, "Behind your silken veil."

4.41 p.m.—THE STATION ORCHESTRA:

"On the Volga" (Krein).

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

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

4.49 p.m.—OLIVER PEACOCK, baritone:

"The Dust of Egypt" (Broughton).

"The Parting" (Broughton).

4.56 p.m.—CHAS. McFEE, alto sax.

NEWS SESSION.

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

5.15 p.m.—Close down.

EVENING SESSION.

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

6.20 p.m.—W. H. BUTCHER will talk on:

"The collecting of postage stamps."

6.35 p.m.—Musical interlude.

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

NEWS AND MARKET REPORTS.

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

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

7.12 p.m.—Stock Exchange information.

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

7.19 p.m.—River reports.

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

NIGHT SESSION.

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

7.45 p.m.—FRANK AND FRANCIS LUIZ:

Duet, "Hana Lei."

Steel guitar, "Kalima Waltz."

Song, "Lay my head beneath a rose."

Duet, "Drifting and Dreaming."

7.55 p.m.—H. K. LOVE:

"Technicalities."

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

OUT OF THE PAST.

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

8.6 p.m.—ENGLISH NIGHTINGALE RECORDS.

BRIEF BIOGRAPHS.

8.13 p.m.—To-day is the anniversary of the birth of THOMAS GAINSBOROUGH (born in 1727), portrait and landscape painter, and one of the greatest of English masters.

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

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

3AR, MELBOURNE

Associated Radio Co.

Wave Length, 484 Metres.

FRIDAY, 11th MAY, 1928.

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

MIDDAY CONCERT SESSION.
12.1 p.m. to 2 p.m.

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

MATINEE SESSION.

ORCHESTRAL DANCE CONCERT.

2 p.m.—Ayaz Dansonians:
A half-hour Dance Session by Melbourne's favorite Dance Band. All the latest popular hits, each one announced prior to its presentation.
2.50 p.m.—Melbourne Concert Orchestra: "Melodious Memories" (Finck).
2.48 p.m.—Mr. Ralph Thompson, baritone: "Sylvia" (Oley Speaks).
"To-morrow" (Keel).
2.55 p.m.—Melbourne Concert Orchestra: Suite, "Vive La Danse" (Finck).
"My Tango Girl" (Rupp).
"My Desire" (Cadman).
3.10 p.m.—Mr. Ralph Thompson, baritone: "The Cloths of Heaven" (Dunhill).
"In Sheltered Vale" (Russell).
3.18 p.m.—Ayaz Dansonians.
3.30 p.m.—Interval announcements.
3.35 p.m.—A Talk by Miss Stephanie Taylor on "Everyday Art."
3.45 p.m.—Melbourne Concert Orchestra: "Danse Lente" (Cesar Franck).
Selection, "The Beauty Prize" (Kern).
4 p.m.—G.P.O. Clock says "Four."
4.1 p.m.—Second weather forecast.
4.3 p.m.—Miss Ruth Phillips, soprano: "My Message" (d'Hardelot).
"Lullaby" (Cyril Scott).
4.11 p.m.—Ayaz Dansonians.
4.30 p.m.—Miss Ruth Phillips, soprano: "I live for you" (Thompson).
"Waltz Song" from "Tom Jones" (Ed. German).
4.38 p.m.—Melbourne Concert Orchestra: Selection, "From the Highlands" (Langley).
4.55 p.m.—To-night's entertainment. Announcements.
5 p.m.—G.P.O. Clock says "Five."
"God Save the King."

CHILDREN'S SESSION.

6.30 p.m.—3AR's Cousin Peter.
EVENING SESSION.
BALL ROOM AND CONCERT HALL.
7.15 p.m.—Health Session: Mr. George Beattie, Principal of the Beattie College of Physical Culture, on "Physical Fitness."
7.30 p.m.—Sport Session: "Harlequin" presents his budget of news and comments on Sport of the Day.
7.50 p.m.—Macnamara's Stock Reports.
8 p.m.—G.P.O. Clock says "Eight."
8.1 p.m.—Melbourne Concert Orchestra: Overture, "Caliph of Bagdad" (Boieldieu).
8.10 p.m.—Miss Vera Thomson, soprano: "Ave Maria" (Cherubini).
"Gentle Shepherd" (Pergolesi).
8.18 p.m.—Ayaz Dansonians.

8.34 p.m.—Mr. Ronald Brearley, 'cello: "Arabian Song" (Vogrich).
8.38 p.m.—Miss Vera Thomson, soprano: "Del mio Dolce Ardor" (Gluck).
"The Joy of a Rose" (Tarbox).
8.46 p.m.—Interval announcements.
8.58 p.m.—Melbourne Concert Orchestra: Suite, "Where Nile Waters Flow" (Andra).
Selection, "Mary Jane McKane" (Stothart).
9.17 p.m.—Mr. Herbert Pettifer, violin: "Souvenir de Posen" (Wieniawski).
9.21 p.m.—Mr. William Storr, baritone: "Eri Tu" (Verdi).
"Requiem" (Homer).
9.29 p.m.—"Harlequin": Sports results.
9.38 p.m.—Ayaz Dansonians.
9.50 p.m.—Interval Announcements.
10 p.m.—G.P.O. Clock says "Ten."
10.1 p.m.—Semi-final Weather Forecast, specially for our Country Listeners.
10.3 p.m.—Melbourne Concert Orchestra: "From Stage to Stage" (Fetras).
Selection, "Queen High" (Hanley).
10.27 p.m.—Mr. William Storr, baritone: "Credo" from "Othello" (Verdi).
"Brian of Glenaar" (Grahams).
10.35 p.m.—Ayaz Dansonians.
10.50 p.m.—"Age" News Bulletin, exclusive to 3AR.
10.58 p.m.—Final weather forecast.
10.59 p.m.—Our Australian Good-night Quote is taken from the poem, "Appassionata," by Mary Gilmore.
11 p.m.—G.P.O. Clock says "Eleven."
"God Save the King."

4QG, BRISBANE.

Queensland Radio Service

Wave Length, 385 Metres.

FRIDAY, 11th MAY, 1928.

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

MIDDAY SESSION.
1 p.m.—Market reports; weather information supplied by the Commonwealth Weather Bureau; news services supplied by "The Daily Mail," and "The Daily Standard."
1.20 p.m.—Lunch hour music.
1.58 p.m.—From The Observatory, Standard time signal.
2 p.m.—Close down.
AFTERNOON SESSION.
3.30 p.m.—Mail train running times.
3.31 p.m.—A programme of music from the studio.
"The Telegraph News."
4.30 p.m.—Close down.

EARLY EVENING SESSION.
6 p.m.—Mail train running times, Daily Standard news, Weather Information announcements.
6.15 p.m.—Dinner music.
6.30 p.m.—Bedtime stories by "The Sandman."
7 p.m.—Market reports; stock reports.
7.30 p.m.—Weather news; "Daily Standard" news announcements.
7.43 p.m.—Standard time signals.
7.45 p.m.—To-morrow's racing reviewed.

NIGHT SESSION.

THE ITHACA ORCHESTRAL SOCIETY.
8 p.m.—National Anthem.
8.1 p.m.—Topical chorus.
8.2 p.m.—Overture: "Fountain of Youth."
The Ithaca Orchestral Society (conductor, Mr. A. Kaeser).
8.14 p.m.—Contralto Solo: "O Western Wind" (Blake).
Miss Vera Parker.
8.17 p.m.—Romance: "Lovers' Lane."
The Ithaca Orchestral Society.
8.25 p.m.—Contralto Solo: "Thoughts" (Fisher).
Miss Vera Parker.
8.28 p.m.—Selection: "Country Girl."
The Ithaca Orchestral Society.
8.48 p.m.—Tenor Solo: "Comrade of Mine" (Thomas).
Mr. Gerald Cachman.

- 8.51 p.m.—Suite: Nos. 4 and 5:
"Merchant of Venice."
The Ithaca Orchestral Society.
9.8 p.m.—Metropolitan weather forecast.
9.9 p.m.—Tenor Solo:
"The Pal That I Loved" (Nelson).
Mr. Gerald Cashman
9.15 p.m.—March:
"On the Quarter Deck."
The Ithaca Orchestral Society.
9.23 p.m.—Week-end road information supplied
by the R.A.C.Q.
9.30 p.m.—Soprano solos:
"Land of Hame and Purple Heather" (Davis).
"My Dear Soul" (Sanderson).
Miss Jean McDougall.
9.40 p.m.—Cornet solos. Selected.
Mr. S. Henry.
9.50 p.m.—"The Daily Mail" news service.
Weather news.
10 p.m.—Close down.

5CL, ADELAIDE.

Central Broadcasters, Ltd.

Wave Length, 395 Metres.

FRIDAY, 11th MAY, 1928.

MIDDAY SESSION.

12 noon to 2 p.m.

AFTERNOON SESSION.

- 3 p.m.—G.P.O. Chimes.
3.1 p.m.—Musical numbers on the Studio "Recreator."
3.30 p.m.—Menu talk by "Homelover."
3.45 p.m.—Musical numbers on the studio "Recreator."
4.57 p.m.—S. C. Ward and Co.'s Stock Exchange Intelligence.
5 p.m.—G.P.O. Chimes and close down.

EVENING SESSION.

- 6 p.m.—G.P.O. Chimes.
6.1 p.m.—Children's entertainment.
6.30 p.m.—Dinner music on the Studio "Recreator."
7 p.m.—G.P.O. Chimes.
7.1 p.m.—General Market reports by A. W. Sandford and Co., A. E. Hall and Co., Dalgety and Co., S.A. Farmers Co-operative Union, Taylor Bros., Retail Grocer's Association, Interstate Fruit and Produce Market Co. Ltd.
7.10 p.m.—S. C. Ward and Co.'s Stock Exchange Intelligence.
7.15 p.m.—"Windbag's" Sporting Service.
7.25 p.m.—Football talk by "High Mark."
7.45 p.m.—Talk arranged by the Agricultural Department.
8 p.m.—G.P.O. Chimes.
8.1 p.m.—Angelo Demodena's Trio.
8.8 p.m.—Malcolm Reid's Orchestra, relayed from the showrooms.
8.20 p.m.—Vincent McMurray, tenor.
8.24 p.m.—Malcolm Reid's Orchestra.
8.40 p.m.—Hazel Whitford, contralto.
8.44 p.m.—Malcolm Reid's Orchestra.
9.1 p.m.—Meteorological information, weather forecast.
9.2 p.m.—Dalgety's wheat report.
9.3 p.m.—International News.
9.12 p.m.—George Horton, humorist.
9.19 p.m.—Angelo Demodena's Trio.
9.26 p.m.—Mrs. Hubert James, contralto.
9.33 p.m.—George Horton, humorist.
9.40 p.m.—Relay from Glenelg, The Maison Dance Band.
10.1 p.m.—"Advertiser" news service.
10.9 p.m.—Wireless shipping contacts.
10.12 p.m.—"Windbag's" Sporting Service.
10.19 p.m.—Mrs. Hubert James, contralto.
10.22 p.m.—Relay from Glenelg, The Maison Dance Band.
10.55 p.m.—Meteorological information, station announcements, to-morrow's programme.
11 p.m.—G.P.O. Chimes and National Anthem.

6WF, PERTH

Westralian Farmer's.

Wave Length, 1250 Metres.

FRIDAY, 11th MAY, 1928.

MIDDAY SESSION.

- 12.30 p.m.—Tune in.
12.35 p.m.—Markets, News and cables.

- 1 p.m.—Time signal.
1.1 p.m.—Weather notes supplied by the Meteorological Bureau of Western Australia.
1.2 p.m.—Studio Quintette, conducted by Mr. Val Smith.
2 p.m.—Close down.

AFTERNOON SESSION.

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

EVENING SESSION.

- 6.45 p.m.—Tune in.
The evening transmission is broadcast on 104.5 metres as well as the usual wavelength.
6.50 p.m.—Stories for the Kiddies by Uncles Henry, Percy and Duffy.
7.20 p.m.—Stocks, Markets, News.
7.45 p.m.—Racing talk by the Sporting editor of "Truth" Newspaper Co.
8 p.m.—Time signal.
8.1 p.m.—Weather notes supplied by the Meteorological Bureau of Western Australia.
Station announcements such as alterations to programmes, etc.
8.3 p.m.—Popular Night.
Musical programme, including vocal and instrumental artists.
9.35 p.m.—Health talk by Mr. H. S. Hatton, Principal of Hatton's Physical Culture School.
10 p.m.—Late News items by courtesy of "The Daily News" Newspaper Co.
Ships within range announcement.
Weather report and forecast.
10.30 p.m.—Close down.

104.5 METRE TRANSMISSION.

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

7ZL, HOBART

Tasmanian Broadcasters, Ltd.

Wave Length, 516 Metres.

FRIDAY, 11th MAY, 1928.

MORNING SESSION.

11 a.m. to 12 noon.

AFTERNOON SESSION.

- 3 p.m.—G.P.O. Clock chimes the hour.
3.1 p.m.—Musical selection.
3.5 p.m.—Hobart Stock Exchange quotations.
Weather information.
Items of interest; Announcements.
3.15 p.m.—Selections by 7ZL Studio Trio.

EARLY EVENING SESSION.

- 6.30 p.m.—Children's Corner by Uncle David.

NIGHT SESSION.

- 7.30 p.m.—Musical selections. 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.—Broadcast by direct wire Weekly Lecture at Lyceum Club, Hobart.
Concert from the Studio:
Miss Norah Freney, soprano, Mr. George Hook, comedian.
Miss Ruby Piesse, accompanist, Mr. E. Brooker, Aeole selections.
Mr. Victor Pharaoh, banjoist.
9.40 p.m.—British Official Wireless News.
9.50 p.m.—"Mercury" special Interstate news service.
Ships within wireless range.
Tasmanian District Weather reports.
9 p.m. weather forecasts.
Weather reports from Australian capital cities.
Travellers' week-end information.
Station announcements.
Saturday's programme.
Close down.

Saturday, May 12 2FC, SYDNEY.

EARLY MORNING SESSSION.

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

MORNING SESSION.

- 10 a.m.—"Big Ben", and announcements.
10.5 a.m.—Studio music.
10.15 a.m.—"Sydney Morning Herald" news service.
10.30 a.m.—Studio music.
10.35 a.m.—A talk on Racing by the 2FC Commissioner.
10.45 a.m.—Studio music.
11 a.m.—"Big Ben."
A.P.A. and Reuter's Cable Services.
11.5 a.m.—A Talk on Gardening by Mr. G. J. Lockley ("Redgum").

MIDDAY SESSION.

- 12 noon—"Big Ben" and announcements.
12.2 p.m.—Stock Exchange.
12.3 p.m.—Studio music.
12.10 p.m.—"Sydney Morning Herald" news service.
12.15 p.m.—Rugby wireless news.
12.20 p.m.—Studio music.
1 p.m.—"Big Ben." Weather intelligence.
1.3 p.m.—"Evening News" midday news service.
1.15 p.m.—Studio music.

AFTERNOON SESSION.

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

EARLY EVENING SESSION.

- 5.40 p.m.—The chimes of 2FC.
5.45 p.m.—The "Hello Man" talks to the children.
6.45 p.m.—Weather intelligence, shipping Stock Exchange and Rugby wireless news.
6.50 p.m.—Studio music.
7 p.m.—Dinner music.
7.25 p.m.—Late sporting information.
7.35 p.m.—Late "Evening News" news service.

NIGHT SESSION.

- 7.45 p.m.—Programme announcements.
7.50 p.m.—Jack Wright, Novelty Pianist.
8.0 p.m.—"Big Ben." James Donnelly, Tenor:
"Blue Melodies."
8.8 p.m.—Bertha Warren, Soprano:
Popular Numbers.
8.16 p.m.—The Honolulu Trio:
Instrumentalists.

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

2BL, SYDNEY.

SATURDAY, 12th MAY, 1928.

EARLY MORNING SESSION.

8 a.m. to 9 a.m.

MORNING SESSION.

11 a.m.—G.P.O. Clock and chimes.
 Social Notes, by Mrs. Jordan.
 Talk on "Simple Cooking for Children," by Mrs. Jordan.

AFTERNOON SESSION.

Racing information, broadcast immediately after each race, by courtesy of the "Sun."
 12 noon.—G.P.O. Clock and chimes.
 Special ocean forecast and weather report.
 12.3 p.m.—Musical programme from the Studio.
 12.20 p.m.—News from the "Sun."
 12.25 p.m.—Sporting and athletic fixtures.
 12.27 p.m.—What's on at the Pictures and Theatres.
 12.30 p.m.—Musical programme from the Studio.
 12.40 p.m.—News from the "Sun."
 12.50 p.m.—Musical programme from the Studio.
 1 p.m.—G.P.O. Clock and chimes.
 During the afternoon descriptions of each race, at Warwick Farm Races, will be broadcast, interspersed with descriptions of football, and musical programme from the Studio.
 5 p.m.—G.P.O. Clock and chimes.
 Racing resume.
 5.10 p.m.—Close down.

EARLY EVENING SESSION.

5.45 p.m.—G.P.O. Clock and chimes.
 Children's Session.
 6.30 p.m.—Dinner Music.
 7 p.m.—G.P.O. Clock and chimes.
 Racing resume.
 7.5 p.m.—Sporting resume.
 7.15 p.m.—News from the "Sun."
 7.30 p.m.—Talk on "The Aborigines," by "Bringa."

EVENING SESSION.

8 p.m.—G.P.O. Clock and chimes.
 Broadcasters' Topical Chorus.
 8.3 p.m.—The Pacific Banjo Trio.
 8.10 p.m.—Mr. Donald Woodrow, baritone.
 8.17 p.m.—Mr. Harry Cash, comedian.
 8.24 p.m.—Broadcasters' Instrumental Trio.
 8.31 p.m.—Miss Norah Hill, soprano.
 8.38 p.m.—Miss Dulcie Blair, violinist.
 8.45 p.m.—Description of the boxing contest, broadcast from the Stadium.
 9.30 p.m.—From the Studio: The Pacific Banjo Trio.
 9.37 p.m.—Mr. Donald Woodrow.
 9.44 p.m.—Mr. Harry Cash.
 9.51 p.m.—Broadcasters' Instrumental Trio.

9.58 p.m.—Miss Norah Hill.
 10.5 p.m.—Miss Dulcie Blair.
 10.12 p.m.—Resume of following day's programme.
 10.15 p.m.—The Wentworth Cafe Orchestra, under the direction of Mr. J. Elkins. During interval, between dances, "Sun" news will be broadcast.
 11.45 p.m.—G.P.O. Clock and chimes.
 National Anthem.

2 UW, SYDNEY

SATURDAY, 12th MAY, 1928.

EVENING SESSION.

7 p.m.—Items from studio.
 7.10 p.m.—Where to go session.
 7.15 p.m.—Instrumental selections.
 7.45 p.m.—News, Mails and shipping.
 8 p.m.—Dance programme by courtesy of Morley Johnson, Ltd.
 9 p.m.—Request numbers.
 9.30 p.m.—Vocal items.
 9.40 p.m.—Dance Music.
 10 p.m.—Announcements and close down.

3LO, MELBOURNE.

SATURDAY, 12th MAY, 1928.

EARLY MORNING SESSION.

7.15 to 8.15 a.m.

MORNING SESSION.

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

MIDDAY NEWS SESSION.

12.0 noon.—Melbourne Observatory Time Signal; Metal Prices received by the Australian Mines and Metals' Association from the London Stock Exchange this day; British Official Wireless News from Rugby; Reuter's and the Australian Press Association Cables; "Argus" News Service.
 HEBREW MELODIES.

12.20 p.m.—THE STATION ORCHESTRA:
 "Kol Nidrei" (Max Bruch).
 12.30 p.m.—RUPERT HAZELL AND ELSIE DAY:
 "Harmonylarity."

12.42 p.m.—Stock Exchange Information.
 12.45 p.m.—THE STATION ORCHESTRA:
 "Hebrew Melodies."
 12.53 p.m.—GORDON JAMES, Baritone:
 "The Great Awakening" (A. Kramer).
 "Exhortation" (W. M. Cook).

1.0 p.m.—Melbourne Observatory Time Signal.
 1.1 p.m.—THE GYPSY PLAYERS:
 "Swing Low, Sweet Chariot."
 1.8 p.m.—Meteorological Information; Weather Report and Rainfall for Victoria, Tasmania, South Australia and New South Wales; Ocean Forecasts; River Reports.

PIANOFORTE RECITAL.

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

AFTERNOON SESSION.

2.12 p.m.—Description of Sandown Plate, 6 furlongs, from SANDOWN PARK RACES, by ERIC WELCH.
 2.20 p.m.—JOHNSTON'S STUDIO BOYS:
 Selection, "Waltzes."
 2.30 p.m.—Description of BASEBALL, Melbourne v. Richmond, at Melbourne Cricket Ground, by PERCY STEEL.
 2.40 p.m.—Announcements.
 2.42 p.m.—Description of Sandown Purse, 1 mile, SANDOWN PARK RACES, by ERIC WELCH.
 2.50 p.m.—Description of LEAGUE FOOTBALL MATCH, Melbourne v. Richmond, at M.C.C., by ROD MCGREGOR.
 3.0 p.m.—Description of HEAL OF RIVER Grand Public School Championships, FINAL rowed on the Henley Course.
 3.12 p.m.—Description of Brush Steeple, about 2 1/4 miles, SANDOWN PARK RACES, by ERIC WELCH.
 3.20 p.m.—Description of LEAGUE FOOTBALL MATCH, Melbourne v. Richmond, at M.C.C., by ROD MCGREGOR.
 3.42 p.m.—Description of SANDOWN PARK HANDICAP, 1 1/4 miles, SANDOWN PARK RACES, by ERIC WELCH.
 3.50 p.m.—Results of League and Association Football Matches, quarter time.
 3.51 p.m.—Description of LEAGUE FOOTBALL MATCH, Melbourne v. Richmond, at M.C.C., by ROD MCGREGOR.
 4.5 p.m.—JOHNSTON'S STUDIO BOYS:
 Selection, "Foxtrots."
 4.12 p.m.—Description of Trial Welter Handicap, 6 furlongs, SANDOWN PARK RACES, by ERIC WELCH.
 4.20 p.m.—Results of ASSOCIATION and LEAGUE FOOTBALL, half time.
 4.21 p.m.—JOHNSTON'S STUDIO BOYS:
 Selection, "Duets."
 4.30 p.m.—Description of LEAGUE FOOTBALL MATCH, Melbourne v. Richmond, at M.C.C., by ROD MCGREGOR.
 4.42 p.m.—Description of Jumper's Flat Race, SANDOWN PARK RACES, by ERIC WELCH.
 4.50 p.m.—JOHNSTON'S STUDIO BOYS:
 Selection, "Comic Opera."
 5.15 p.m.—"Herald" News Service; Stock Exchange Information.
 5.25 p.m.—Close Down.

EVENING SESSION.

5.50 p.m.—Final Scores of League and Association Football Matches; Sporting Results.
 6.0 p.m.—Answers to Letters and Birthday Greetings by "LITTLE MISS KOOKABURRA."
 6.20 p.m.—DICKSON GREGORY:
 The first ocean steamer built of steel—the "Rotomahana."
 6.35 p.m.—Musical Interlude.
 6.40 p.m.—"LITTLE MISS KOOKABURRA":
 "A fairy story of a little Princess and her cottage in the wood."
 NEWS AND MARKET REPORTS.
 7.0 p.m.—Sporting Results.
 7.12 p.m.—Stock Exchange Information.
 7.20 p.m.—Market Reports by the Victorian Producers' Co-operative Co., Ltd.; Poultry, Grain, Hay, Straw, Jute, Dairy Produce.

NIGHT SESSION.

7.30 p.m.—FREDERICK CHAPMAN, A.L.S., F.G.S., Palaeontologist, of the National Museum.
 "Boring into a Coral Island."
 7.45 p.m.—DR. J. A. LEACH:
 "Australian Grass Parrots."
 OUT OF THE PAST.
 8.0 p.m.—On the 12th May, 1915, Windhoek was occupied by General Botha.
 8.1 p.m.—Birthday Greetings and Programme Announcements.
 PROMINENT PERSONALITIES.
 8.2 p.m.—FLORENCE NIGHTINGALE, born 1820-1910. Popularly known as "The Lady of the Lamp," but the following extract from her writings gives an excellent example of the woman who laid the Foundation of the present methods of Hospital organisation in British Countries:
 "How can a woman become a superintendent unless she has learnt to superintend herself."
 8.3 p.m.—THE 32nd BATTALION BAND, Winners of the 3rd Military District Band Contest.

- Presentation of the 3LO Cup by Colonel C. V. Watson, D.S.O., V.D.
- 8.7 p.m.—THE 32nd BATTALION BAND: March, "Carnival King" (Rixamer).
- 8.18 p.m.—ELSIE DAVIES, Soprano: "Mia Piccerella" (Gomez), "Serenata" (Tosti).
- 8.20 p.m.—THE 32nd BATTALION BAND: Waltz, "Will-o-the-Wisp."
- PIANOFORTE RECITAL.
- 8.27 p.m.—HENRI PENN: "Scherzo No. 2" (Chopin), "Rhapsody No. 8" (Liszt).
- 8.42 p.m.—THE 32nd BATTALION BAND: Cornet Duet, "Ida and Dot" (Losey). Bandsmen, E. Dill and M. Windsor.
- FROM THE STADIUM.
- 8.50 p.m.—Description of To-night's Stadium Event, by ERIC WELCH.
- FROM THE STUDIO.
- 10.30 p.m.—THE 32nd BATTALION BAND: Selection, "Poetic Fancies" (Lamont). Poetic Fancies is the winning selection with which the 32nd Battalion Band won the test piece at the 3rd Military District Sports on April 14.
- 10.40 p.m.—RUPERT HAZELL AND ELSIE DAY: "Harmonylarity."
- 10.50 p.m.—OLIVER PEACOCK, Baritone: "Just an Ivy Covered Shack" (Rupp).

SPORTING RESULTS.

Late Sporting Results.

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

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

11.0 p.m.—OUR GREAT THOUGHT:

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

—ARTHUR HELPS.

DANCE MUSIC.

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

3AR, MELBOURNE

SATURDAY, 12th MAY, 1928.

MORNING NEWS SESSION.

11 a.m. to 12 noon.

MIDDAY CONCERT SESSION.

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

MATINEE SESSION.

ORCHESTRAL DANCE CONCERT.

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

- 2 p.m.—Ayaz Dansonians: A half-hour Dance Session by Melbourne's favorite Dance Band. The latest popular hits, each one announced prior to its presentation.
- 2.30 p.m.—Melbourne Concert Orchestra: "The Maid of the Mountains" (Fraser-Simson), "Nocturne" (Chopin).
- 2.45 p.m.—Miss Julia Russell, soprano: "Down the Forest" (Landon Ronald), "Piper June" (Molly Carew).
- 2.52 p.m.—Melbourne concert Orchestra: "Indian Summer Suite" (M. Lake), "Reverie" (Vieuxtemps).
- 3.8 p.m.—Miss Ethel Brearley, piano: "Orientale" (Amani).
- 3.12 p.m.—Miss Julia Russell, soprano: "Lovers in the Lane" (Liza Lehmann), "Thoughts Have Wings" (Liza Lehmann).
- 3.20 p.m.—Melbourne Concert Orchestra: "Savoy Scottish Medley" (Somers), "Spanish Dances, Nos. 3, 4 and 5" (Moszkowski).
- 3.30 p.m.—Interval Announcements.
- 3.40 p.m.—Melbourne Concert Orchestra: Selection from "The Count of Luxemburg" (Lehar), "The Plantation Songs" (Clutsam).

- 4 p.m.—G.P.O. Clock says "Four."
- 4.1 p.m.—Second weather forecast.
- 4.3 p.m.—Mr. Howard Andrews, baritone: "Tally Ho" (Franco Leoni), "A May Morning" (L. Denza).
- 4.11 p.m.—Melbourne Concert Orchestra: Sinfonie Poem: "Die Moldau" (Smetana), Selection, "Daffy Dill" (Stothart).
- 4.31 p.m.—Mr. Howard Andrews, baritone: "On the Road to Mandalay" (Oley Speaks), "Invictus" (Bruno Huhn).
- 4.39 p.m.—Melbourne Concert Orchestra: Suite, "Summer Days" (Coates), "La Bella Espagnola" (Moses-Tobani).
- 4.55 p.m.—To-night's entertainment. Announcements.
- 5 p.m.—G.P.O. Clock says "Five." God Save the King.

CHILDREN'S SESSION.

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

EVENING SESSION.

DANCE CONCERT.

- 7.20 p.m.—Sport Session. "Harlequin" presents his budget of up-to-date news and comments on Sport of the Day.
- 7.45 p.m.—Everyman's Garden. Special weekend talks by Mr. W. R. Warner, president of the Nurserymen's and Seedsmen's association of Victoria.
- 8 p.m.—G.P.O. Clock says "Eight."
- 8.1 p.m.—Ayaz Dansonians:
- 8.16 p.m.—Moana Lua Duo, Spanish and Hawaiian Guitars: "Hawaiian Hotel," "My Blue Heaven" (Donaldson).
- 8.24 p.m.—Ayaz Dansonians:
- 8.40 p.m.—Mr. Alan Adcock, Humorous entertainer: "The Waxworks Watchman" (Wilcox).
- 8.48 p.m.—Interval announcements.
- 9 p.m.—Ayaz Dansonians:
- 9.16 p.m.—Moana Lua Duo: Steel Guitar Solos: "Swanee River" (Foster), "The Rosary" (Nevin).
- 9.23 p.m.—Ayaz Dansonians:
- 9.39 p.m.—Mr. Sam Cope, marimbaphone: "At Milligan's Picture Show" (Weston and Lee).
- 9.50 p.m.—Announcements.
- 10 p.m.—G.P.O. Clock says "Ten."
- 10.1 p.m.—Semi-final weather forecast, specially for our Country Listeners.
- 10.3 p.m.—Ayaz Dansonians:
- 10.19 p.m.—Mr. Sam Cope, marimbaphone: "Stars and Stripes" (Souza), "Mello Cello."
- 10.26 p.m.—Moana Lua Duo: Spanish Guitar Solos: "La Sirena," "Fandango."
- 10.33 p.m.—Ayaz Dansonians:
- 10.45 p.m.—"Harlequin." Sport results.
- 10.52 p.m.—To-morrow's entertainment. Announcements.
- 10.58 p.m.—Final weather forecast.
- 10.59 p.m.—Our Australian Good Night Quote is taken from the poem, "The Man Who Told You So," by Styx.
- 11 p.m.—G.P.O. Clock says "Eleven." God Save the King.

4QG, BRISBANE

SATURDAY, 12th MAY, 1928.

NO MORNING SESSION.

NO MIDDAY TRANSMISSION.

AFTERNOON SESSION.

B.A.T.C. RACES.

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

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

NIGHT SESSION.

- 8 p.m.—Half an hour's orchestral music by the Tivoli Operatic Orchestra, under the baton of Mr. C. Groves.
- 8.30 p.m.—FROM THE STUDIO: Soprano Solos: (a) "Your Voice" (Teschemacher).

- (b) "An Emblem" (Thomson). Miss Annie Adams.
- 8.37 p.m.—Half an hour of humor by Billy Maloney, assisted by Miss Dulcie Maloney and Miss Eileen Cuckack.
- 9.7 p.m.—Metropolitan weather forecast.
- 9.8 p.m.—Soprano solos: (a) "Advice" (Carew), (b) "Provence" (Carne), Miss Muriel McHugh.
- 9.15 p.m.—FROM DAVIES PARK: Description of motor cycle races.
- 9.35 p.m.—FROM LENNON'S BALLROOM: Dance Music.
- 10 p.m.—FROM THE STUDIO: "Sunday Mail" news service.
- 10.5 p.m.—Weather information.
- 10.10 p.m.—Close down.

5CL, ADELAIDE

SATURDAY, 12th MAY, 1928.

MORNING SESSION.

11 a.m. to 12 noon.

AFTERNOON SESSION.

- 1 p.m.—Relayed from Morphettville racecourse, a running description of events of the third day of the South Australian Jockey Club's Adelaide Cup meeting, by Mr. Arnold Treloar, interspersed with interstate results and musical numbers from the studio.

EVENING SESSION.

- 6 p.m.—G.P.O. Chimes.
- 6.1 p.m.—Children's entertainment.
- 6.30 p.m.—Dinner music on the Studio "Recreator."
- 7 p.m.—G.P.O. Chimes.
- 7.1 p.m.—S. C. Ward and Co.'s Stock Exchange Intelligence.
- 7.10 p.m.—Resume of to-day's football matches by "High Mark."
- 7.30 p.m.—Station announcements.
- 7.45 p.m.—Summary of local and interstate sporting results.
- 8 p.m.—G.P.O. Chimes.
- 8.1 p.m.—S.A. Railways Band.
- 8.11 p.m.—The Two Bohemians, a humorous duo.
- 8.18 p.m.—S.A. Railways Band.
- 8.26 p.m.—Beatrice Kingston, soubrette.
- 8.32 p.m.—Keith Pullman, banjo-mandolin.
- 8.38 p.m.—The Two Bohemians.
- 8.46 p.m.—S.A. Railways Band.
- 9.1 p.m.—Meteorological information weather forecast.
- 9.3 p.m.—International news.
- 9.12 p.m.—S.A. Railways Band.
- 9.22 p.m.—Keith Pullman, banjo-mandolin.
- 9.26 p.m.—Beatrice Kingston, soubrette.
- 9.30 p.m.—S.A. Railways Band.
- 9.37 p.m.—Mrs. Hubert James, pianoforte recital.
- 9.44 p.m.—S.A. Railways Band.
- 9.53 p.m.—The Two Bohemians.
- 10.1 p.m.—Interstate and local sporting results.
- 10.10 p.m.—Wireless shipping contacts.
- 10.13 p.m.—S.A. Railways Band.
- 10.22 p.m.—Relay from Glenelg, The Maison Dance Band.
- 10.55 p.m.—Station announcements. Meteorological information. To-morrow's programme.
- 11 p.m.—G.P.O. Chimes and National Anthem.

6WF, PERTH.

SATURDAY, 12th MAY, 1928.

MIDDAY SESSION.

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

AFTERNOON SESSION.

- 3.15 p.m.—Tune in.
- 3.20 p.m.—Sporting Session. Musical programme from the studio, including vocal and instrumental numbers. Racing results and Football 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.
7.10 p.m.—Sports results.
7.20 p.m.—Markets, News, and cables.
7.45 p.m.—Talk.
8 p.m.—Time signal.
8.1 p.m.—Weather notes supplied by the Meteorological Bureau of Western Australia. Station announcements such as alterations to programmes, etc.
8.3 p.m.—Music and Song.
Musical programme from the Studio, including vocal and instrumental artists.
Old time dance music relayed from the Unity Theatre, Beaufort street.
10 p.m.—Late News items by courtesy of "The Daily News" Newspaper Co.
Ships within Range announcement.
Weather report and forecast.
Sports results.
10.30 p.m.—Close down.
104.5 METRE TRANSMISSION.
Simultaneous broadcast on 104.5 metres of Programme given on 1250 metres, commencing at 6.45 p.m.

7ZL, HOBART

SATURDAY, 12th MAY, 1928.

MORNING SESSION.

11 a.m. to 12 noon.

AFTERNOON SESSION.

- 3 p.m.—G.P.O. Clock chimes the hour.
Broadcast by direct wire from North Hobart Oval description of the Football Match, New Town v. Cananore. Progress racing and sporting events, musical items from the Studio.
5 p.m.—Close down.
EARLY EVENING SESSION.
6.30 p.m.—Uncle Hubert's half-hour.
7 p.m.—Uncle David's half-hour.
NIGHT SESSION.
7.30 p.m.—Musical selections.
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.
8.15 p.m.—Dance numbers by the Pavilion Dance Band from the City Hall, Hobart, interspersed with items from the Studio.
10.20 p.m.—British official wireless news.
Ships within wireless range.
Weather information.
Station announcements.
Sunday programme.
Close down.

Sunday, May 13
2FC, SYDNEY

MORNING SESSION.

- 10.55 a.m.—Programme announcements.
11.0 a.m.—From St. Andrew's Cathedral, George Street, Sydney:
The Morning Service, conducted by The Very Rev. Dean Talbot (Dean of Sydney).
12.15 p.m.—From the Studio: News Service and Musical Items.
12.30 p.m.—Close down.

AFTERNOON SESSION.

- 3.0 p.m.—"Big Ben"; and programme announcements.
3.2 p.m.—From the Y.W.C.A. Assembly Hall, Liverpool Street, Sydney (usual Sunday Service from the Fullerton Memorial Church, Crown Street).
Afternoon Programme by the Welsh Church, arranged by W. M. Rees.
Choral and solo items.
Address by Rev. J. H. Beynon.

- 4 p.m.—"Big Ben"; From the Band Rotunda, Manly Beach: A programme by the Manly Municipal Band, conducted by James Pheloung.
5.0 p.m.—"Big Ben"; Close down.

EVENING SESSION.

- 6.0 p.m.—"Big Ben" and programme announcements.
6.5 p.m.—Captain Fred Aarons in continuation of his series of talks, "Roaming the Papua," will deal this evening with: No. 5—"A Jaunt Through Japan."
6.20 p.m.—From the Congregational Church, Pitt Street, Sydney. An Organ Recital by Lilian Frost:
(a) "Air with Variations" (Guilmant).
(b) "Nocturne" (Karganoff).
(c) "Le Reve Angelique" (Rubinstein).
(d) "The Lost Chord" (Sullivan).
(e) "Andante in G" (Bastide).
7.15 p.m.—The Evening Service from the Congregational Church, Pitt Street.
Preacher, Rev. T. E. Ruth.
8.30 p.m.—From the Band Rotunda, Manly Beach. A programme by the Manly Municipal Band.
Conductor, James Pheloung.
9.30 p.m.—From the Studio:
Peter Gawthorne, Baritone.
9.40 p.m.—Jules Van Der Klei:
'Cello Solos.
9.50 p.m.—Peter Gawthorne, Baritone.
10.0 p.m.—"Big Ben"; Jules Van Der Klei:
'Cello Solos.
10.10 p.m.—National Anthem; Close down.
At the Piano: Horace Keats.

2BL, SYDNEY.

SUNDAY, 13th MAY, 1928.

MORNING SESSION.

- 10.45 a.m.—G.P.O. Clock and chimes.
Service broadcast from St. Jude's Church of England, Randwick.

AFTERNOON SESSION.

- 2 p.m.—G.P.O. Clock and chimes.
Special session for children in hospitals.
2.15 p.m.—H.M.V. Gramophone Recital.
2.45 p.m.—Information service.
3 p.m.—Organ Recital, by Mr. N. Robins, broadcast from the Arcadia Theatre, Chatswood.
4 p.m.—Pleasant Sunday Afternoon, broadcast from the 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 Chalmer's Presbyterian Church.
8.30 p.m.—The North Sydney Tramway Band, broadcast from Manresa Hall, North Sydney.
9.15 p.m.—From the Studio: The Broadway Four (male quartette).
9.22 p.m.—Mr. Lloyd Davies, violinist.
9.29 p.m.—Miss Ella Goodman, soprano.
9.36 p.m.—Mr. G. Vern Barnett, piano solos.
9.46 p.m.—The Broadway Four.
9.53 p.m.—Mr. Lloyd Davies.
10 p.m.—G.P.O. Clock and chimes.
10.1 p.m.—Resume of following day's programme.
Weather report and forecast, by courtesy of Mr. C. J. Mares, Government Meteorologist.
10.6 p.m.—Miss Ella Goodman.
10.13 p.m.—National Anthem.

2 UW, SYDNEY

SUNDAY, 13th MAY, 1928.

MORNING SESSION.

- 10.30 a.m.—Items from studio.
10.40 a.m.—Special programme by courtesy of His Masters Voice Gramophone Co. of 163 Pitt St. Sydney.

- 11.30 a.m.—Instrumental and vocal selections.
11.50 p.m.—Request numbers.
12.30 p.m.—Close down.

EVENING SESSION.

- 7 p.m.—Studio items.
7.15 p.m.—Vocal and instrumental items.
7.30 p.m.—Talk by Mr. J. M. Prentice—the original "Uncle Jack" of 2 BL.
7.50 p.m.—Studio items.
8 p.m.—Request numbers.
8.45 p.m.—Weather forecast.
8.50 p.m.—Vocal and instrumental items.
9.30 p.m.—Announcements and close down.

3LO, MELBOURNE.

SUNDAY, 13th MAY, 1928.

MORNING SESSION.

- 10.30 a.m.—Express train information.
10.31 a.m.—Bells from St. Paul's Cathedral.
10.45 a.m.—MORNING SERVICE FROM ST. PAUL'S CATHEDRAL, MELBOURNE:
Sentence.
Exhortation.
General Confession.
Absolution.
The Lord's Prayer.
Versicles and Responses (Ferial).
The Venite.
Psalm 96 and 97.
First Lesson.
Te Deum.
Second Lesson.
Benedictus.
Apostles' Creed.
Collects.
Anthem, "The Spirit of the Lord," "The Apostles" (Elgar).
Prayers.
Hymn (A. and M.) 218, "God of Mercy and of Grace."
Sermon, Rev. R. N. NOBLE, M.A.
Hymn 360, "Thou Whose Almighty Word."
The Benediction.
The Preacher, the Rev. R. H. Noble, M.A. is the Principal of Edwardes College, Peshawar, India.
12.15 p.m.—British Official Wireless News from Rugby. News from yesterday's papers.
12.30 p.m.—Close down.

AFTERNOON SESSION.

- 2 p.m.—SCNORA RECITAL OF THE WORLD'S MOST FAMOUS RECORDS.
ORCHESTRAL.
"Prelude a' L'apres midi d'un Faunt" (afternoon of a Faun) Parts 1 and 2 (Debussy).
Royal Albert Hall Orchestra, conducted by Sir Landon Ronald.
SONG, "Addio" (Goodbye) (Tosti). In Italian by Enrico Caruso (the late), tenor.
VIOLIN SOLO, "Ave Maria" (Schubert-Wilhelm), Jascha Heifetz.
ORGAN SOLO, "Fantasia in E" (St. Saens), Dr. Harold Darke.
SONG, "Onaway, Awake, Beloved" (Cowen). In English by Harry Dearth, bass.
ARIA, "Salce Salce" (The Willow Song) (Verdi). Act 4, "Othello," in Italian, Rosa Pospelle, soprano.
SONG, "Ah! Moon of My Delight" (In a Persian Garden), in English (Lehmann). John McCormack, tenor.
ARIA, "Charmant Oiseau" (in French) (David) (Thou Brilliant Bird), La Perle du Brazil.
Amelita Galli-Curci, soprano.
ARIA, "Lohengrin's Narrative" (Lohengrin-Wagner). In Distant Lands, in English. Evan Williams, tenor.
3 p.m.—PLEASANT SUNDAY AFTERNOON SERVICE FROM CENTRAL MISSION WESLEY CHURCH, Lonsdale Street, Melbourne:
CHAIRMAN, REV. J. H. CAIN.
Hymn No. 20, "Hail Thou Once Despised Jesus."
Prayer, Rev. C. Irving Benson.
Orchestral Selection, Mr. G. M. Williams, conductor.
Hymn No. 30, "Jesus Shall Reign."
Solo, Mr. Percy Blundell.
Orchestra.
Solo, Mr. Percy Blundell.

Notices.

Offering.

Orchestra.

ADDRESS: REV. R. H. NOBLE, M.A.
(Peshawar, India). (Principal of Edward
College).

Subject: "LIFE ON THE INDIAN FRON-
TIER."

National Anthem.

Benediction.

Orchestra.

4.30 p.m.—Close down.

EVENING SESSION.

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

6.20 p.m.—"BROTHER BILL" has a special
Message for Boys.

6.45 p.m.—Bells from St. Paul's Cathedral.

NIGHT SESSION.

7 p.m.—EVENING SERVICE FROM WES-
LEY CHURCH, MELBOURNE, CON-
DUCTED BY REV. C. IRVING BENSON.

Introit, "The Lord is in His Holy Temple."

Prayer, "The Outer Gate."

Hymn, "Yes, God is Good."

Prayer, "The Inner Court."

Anthem.

Scripture Reading.

Intimations and Offering.

Anthem.

Hymn, "There were ninety and nine."

MONTHLY BOOK SERMON.

Hymn, "Now the Day is Over."

BENEDICTION.

Sevenfold Amen.

FROM THE STUDIO:

8.30 p.m.—Birthday Greetings and Programme
Announcements. Island Shipping Move-
ments.

8.33 p.m.—Record Feature of the Week.

8.35 p.m.—MALVERN TRAMWAYS BAND:

Overture, "Light Cavalry" (Suppe).

Hymn, "Fierce Raged the Tempest."

8.42 p.m.—QUARTETTE CONCERT:

PROFESSOR BERNARD HEINZE.

STANLEY TOMPKINS.

W. H. S. LAMBLE

ELFORD MACK.

"Quartette in D Major" (Mendelssohn).

"Andante Cantabile" (Tchaikowsky).

"Scherzo" (Glazounow).

ELSIE DAVIES, soprano:

"True Love" (Brahms).

"To the Forest" (Tchaikowsky).

QUARTETTE CONCERT.

PROFESSOR BERNARD HEINZE.

STANLEY TOMPKINS.

W. H. S. LAMBLE.

ELFORD MAC.

"Drink to me only with thine eyes" (Old
English).

"Allegro from D Major Quartette" (Mozart).

9. 22 p.m.—MALVERN TRAMWAYS BAND:

Incidental Music to "Merchant of Venice":

1. Prelude.

2. Intermezzo.

Oriental March (Rosse).

9.32 p.m.—ELSIE DAVIES, soprano:

"Four Mighty Kings—Judas Maccabaeus"
(Handel).

9.40 p.m.—MALVERN TRAMWAYS BAND:

March, "Vedette."

"Hallelujah Chorus" (Handel).

9.50 p.m.—"Argus" News Service. Announce-
ments. The Royal Automobile Club of
Victoria's SAFETY MESSAGE for to-day

is: "Give proper attention to headlights.

They often cause inconvenience and danger
to others."

9.58 p.m.—Our Great Thought:

"There is no dearth of charity in the
world in giving, but there is comparatively
little exercised in thinking and speaking."
—Sir Philip Sydney.

10 p.m.—"GOD SAVE THE KING."

AFTERNOON SESSION.

Special Sunday School Anniversary Service
with Augmented Choir and Orchestra, to
be broadcast from the Brunswick Methodist
Church.

Preacher: Rev. L. H. Purnell.

3 p.m.—Opening Ode:

"Let the Words of Mouth."

Opening Hymn, "Festal Greetings."

Congregational Hymn, "Talk With us Lord."

Prayer.

Infants Hymn.

Reading.

Hymn No. 8, "To Cheer the Way."

Talk to the Children.

Hymn No. 12, "With Gladness and with
Song."

Notices and Collection.

Offertory Hymn No. 4, "Sing of His Love."

Congregational Hymn, "There's a Friend
for Little Children."

Sermon.

Hymn No. 13, "Onward Christian Soldiers."

Retiring Hymn, "The Bells of God."

4.30 p.m.—Close down.

CHILDREN'S SESSION.

6 p.m.—Special Children's Hour.

EVENING CHURCH SESSION.

7 p.m.—Evening Church Service from Cairns
Memorial Church.

Preacher: Rev. Hagenauer.

EVENING SESSION.

COMPLETE SCORE OF THE OPERA
PAGLIACCI.

8.30 p.m.—Brunswick Panatrope Entertain-
ment—Broadcast from Panatrope House,
252 Collins Street, Melbourne (by exclu-
sive permission of Wills and Paton Ltd.),
under the direction of the Panatrope Com-
mittee:

Chairman: Mr. W. L. S. Taylor.

Selector: Mr. John Feil.

Direction: Mr. Seymour Nixon.

8.31 p.m.—The British National Opera Com-
pany's Orchestra:

"Prelude, Act 1," from Pagliacci (Leon-
cavallo).

"Prologue" 1st Part, from Pagliacci (Leon-
cavallo).

8.37 p.m.—Mr. Harold Williams, baritone:

"Prologue," conclusion, from Pagliacci
(Leoncavallo).

Opening Chorus, Act 1, "They Come, They
Come," from Pagliacci.

8.43 p.m.—Mr. Frank Mullings, Mr. Heddle
Nash, Mr. Harold Williams (with chorus):

"The Evening at Seven of the Clock," from
Pagliacci (Leoncavallo).

"Such a Game," from Pagliacci (Leon-
cavallo).

8.49 p.m.—Mr. Frank Mullings, and chorus,

"Hark, 'tis the Bagpipes, and Bell Chorus,"
1st Act from Pagliacci.

(a) "Bell Chorus."

(b) "How Fierce He Looked," from Pag-
liacci.

8.55 p.m.—Miss Miriam Licette, and Mr. Harold
Williams and Mr. Dennis Noble,

"Ballatella, High aloft They Cry" from
Pagliacci (Leoncavallo).

"I know you hate me" from Pagliacci
(Leoncavallo).

9.1 p.m.—Miss Miriam Licette, Mr. Harold
Williams and Mr. Dennis Noble,

"You mock me, too long I've borne it,
from Pagliacci (Leoncavallo).

"My Fate is in Thy Hand," from Pagliacci
(Leoncavallo).

9.7 p.m.—Miss Miriam Licette and Mr. Dennis
Noble:

"Why Hast Thou Taught Me?" from Pag-
liacci (Leoncavallo).

"Tread lightly, lightly," from Pagliacci
(Leoncavallo).

9.13 p.m.—Mr. Frank Mullings, Mr. Heddle
Nash, Mr. Harold Williams:

"Ah, Stay Good Master," from Pagliacci
(Leoncavallo).

"On with the Motley," from Pagliacci
(Leoncavallo).

9.19 p.m.—Miss Miriam Licette, Mr. Dennis
Noble, Mr. Heddle Nash, Mr. Harold Wil-
liams (with chorus).

Opening Chorus, Act 2: "Quickly, Sweet
Gossip," from Pagliacci.

"Intermezzo," Act 2: from Pagliacci
(Leoncavallo).

9.25 p.m.—Miss Miriam Licette and Mr. Hed-
dle Nash:

Opening of "The Play," from Pagliacci
(Leoncavallo).

"Ah, yes, 'tis Now the Hour Entrancing,"
from Pagliacci (Leoncavallo).

9.31 p.m.—Miss Miriam Licette, Mr. Heddle
Nash and Mr. Harold Williams:

"Pure, Yes, I Know Thou Art," from Pag-
liacci (Leoncavallo).

"Pour the Philtre in His Wine," from Pag-
liacci (Leoncavallo).

9.37 p.m.—Miss Miriam Licette, Mr. Frank
Mullings, Mr. Harold Williams, Mr. Hed-
dle Nash and Mr. Dennis Noble.

"No, Punchinello, No More," from Pag-
liacci (Leoncavallo).

Finale: "If Thou Deemest Me so Unworthy"
from Pagliacci (Leoncavallo).

9.43 p.m.—The Regimental Band of His
majesty's Grenadier Guards:

"Ceopatra—Triumphal March" (Mancinelli),
By request.

"The Kestic Suite, No. 3—The Call" (J. H.
Foulds).

9.54 p.m.—The "Age" News Bulletin, exclu-
sive to 3AR.

9.58 p.m.—Weather forecast.

9.59 p.m.—Our Australian Good Night Quote
is taken from the poem, "Love and Sacri-
fice," by Bernard O'Dowd.

"Can we not consecrate
To man and God above,
This volume of our great
Supernal tide of love?"

10 p.m.—G.P.O. Clock says "Ten."

God Save the King.

4QG, BRISBANE

SUNDAY, 13th MAY, 1928.

MORNING SESSION.

11 a.m.—From Albert Street Methodist Church:
Complete morning service.

12.15 p.m.—Close down.

AFTERNOON SESSION.

3.15 p.m.—From the Botanic Gardens:

Band concert.

4.30 p.m.—Close down.

NIGHT SESSION.

ALBERT STREET METHODIST CHURCH.

7 p.m.—From Albert St. Methodist Church:

Evening service.

At the conclusion of the church service, the

concert by the Brisbane Municipal Concert

Band will be relayed from Wickham Park.

9.30 p.m.—Close down.

5CL, ADELAIDE

SUNDAY, 13th MAY, 1928.

MORNING SESSION.

10.45 a.m.—Carillon of bells from St. Andrew's
Church, Wakerville.

11 a.m.—G.P.O. Chimes.

11.1 a.m.—Morning Divine Service from St.
Peters Cathedral.

12.10 p.m.—International News, time announce-
ment, close down.

AFTERNOON SESSION.

3 p.m.—G.P.O. Chimes.

3.1 p.m.—Sacred concert arranged by choir of
Parkside Baptist Church.

4 p.m.—G.P.O. Chimes and close down.

EVENING SESSION.

6.30 p.m.—G.P.O. Chimes.

6.31 p.m.—Carillon of bells from St. Andrew's
Church.

6.36 p.m.—Running time of Esat-West express.

6.37 p.m.—Sunday Stories for the children by
"The Bird Lady."

7 p.m.—G.P.O. Chimes.

7.1 p.m.—Evening Divine Service from Stow
Memorial Church.

8.15 p.m.—Sacred concert by Stow Memorial
Church choir.

9.30 p.m.—Talk by Mr. P. H. Nicholls.

9.50 p.m.—To-morrow's programme and
weather forecast.

9.55 p.m.—International News, station an-
nouncements, and close down.

3AR, MELBOURNE

SUNDAY, 13th MAY, 1928.

MORNING CHURCH SESSION.

10.30 a.m.—Chimes from St. John's Church,
Toorak.

11 a.m.—Morning Service from the Indepen-
dent Church, Collins Street.

Gagged!

until —



WHEN I disconnected my old speaker and plugged in the R.C.A., a tremendous increase in volume was immediately noticeable. Station after station boomed in—there's no other word to express it. It was just as if I had added a further stage of L.F., but minus the parasitic noises which usually attend three stages of L.F. amplification.

After I had used the R.C.A. speaker for several days, and had an opportunity to compare it rather more critically with my previous speaker, a good-class diaphragm and horn type, I noted the following points of superiority for the R.C.A. :—

- (1) No fading away or loss of high-pitched notes.
- (2) Perfect control of heavy sound volume.
- (3) No unnatural resonance when reproducing the human voice.

(Extract from a letter recently received).

Unmuffle YOUR radio. To-night let it sing to you in a new, clear voice. Hear the new richness and clarity of hitherto smothered sounding notes. Have the Model 100A demonstrated to you immediately—any of the best radio dealers will gladly oblige.

RCA

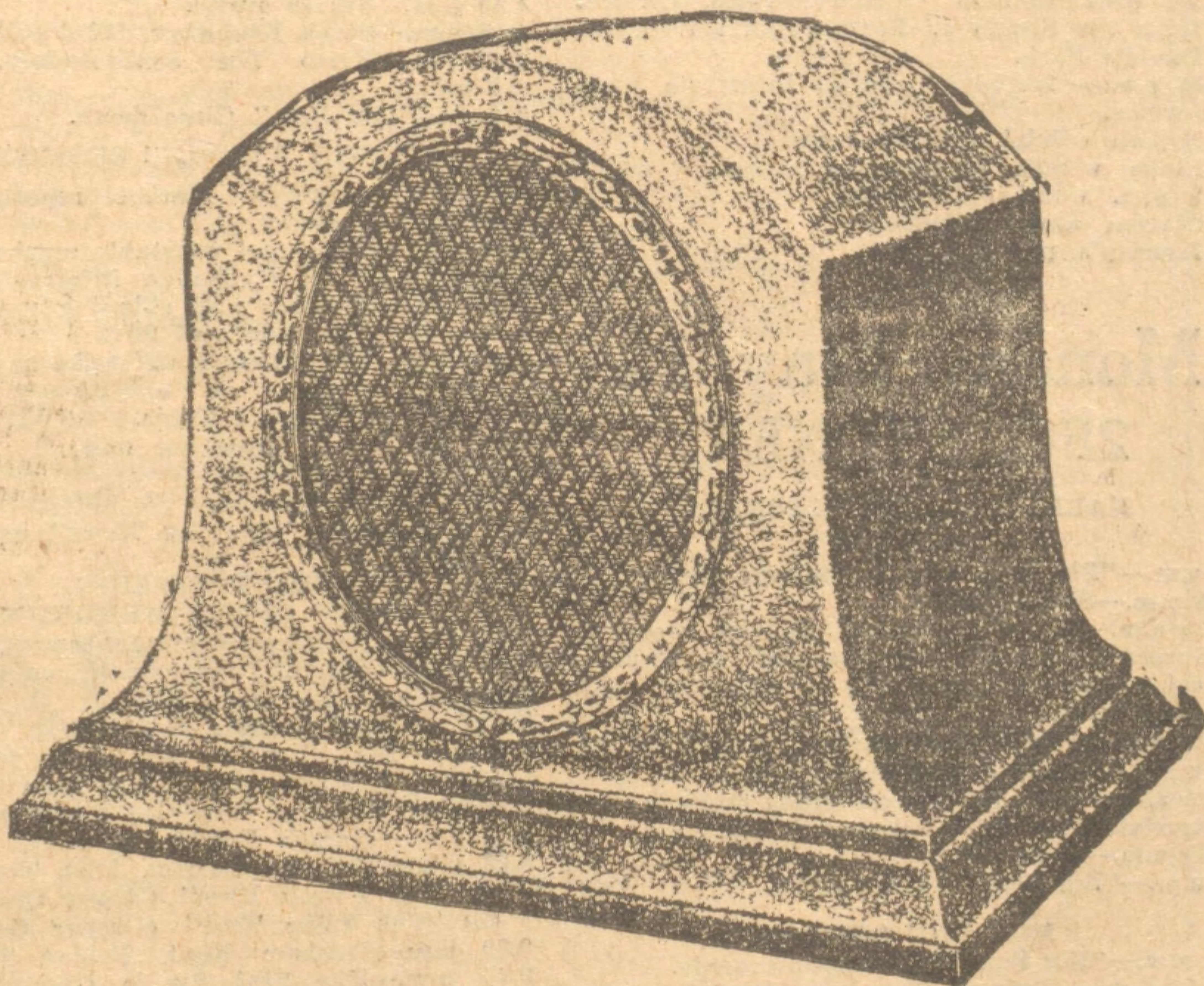
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GENERAL ELECTRIC
Australian General Electric Company Ltd.

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 Civic Centre - CANBERRA
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6WF, PERTH.

SUNDAY, 13th MAY, 1928.

MORNING SESSION.

- 10.45 a.m.—Tune in.
 11 a.m.—Morning service relayed from Lake Street Church of Christ, Perth.
 12.15 p.m.—Close down.

AFTERNOON SESSION.

- 3.30 p.m.—Tune in.
 3.35 p.m.—A Relay.
 Sunday School Service relayed from Charles Street Methodist Church, West Perth.
 4.30 p.m.—Close down.

EVENING SESSION.

- 7 p.m.—Tune in.
 The evening transmission is broadcast on 104.5 metres as well as the usual wavelength.
 7.5 p.m.—Children's Bedtime stories.
 7.30 p.m.—Evening service relayed from Wesley Church, Hay Street, Perth.
 8.45 p.m.—A Relay.
 After-Church service relayed from Charles Street Methodist Church, West Perth.
 10.5 p.m.—Close down.
104.5 METRE TRANSMISSION.
 Simultaneous broadcast on 104.5 metres of Programme given on 1250 metres, commencing at 7 p.m.

7ZL, HOBART

SUNDAY, 13th MAY, 1928.

MOTHER'S DAY.**MORNING SESSION.**

- 11 a.m.—Service from Memorial Congregational Church, Hobart.
 Preacher, Rev. Arthur C. Nelson.
 Close down.

AFTERNOON SESSION.

- 3.30 p.m.—Young People's Mother's Day Service from Wesley Church.
 Speakers, Dr. Poole, P.H.D., D.D., and Sir Edward Sharpe.
 4.30 p.m.—Close down.

EARLY EVENING SESSION.

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

NIGHT SESSION.

- 7 p.m.—Church Service from St. David's Cathedral, Hobart.
 At conclusion of Church Service, Concert from the Studio or Band Concert from St. David's Park.
 9.40 p.m.—"Mercury" special Interstate news service.
 British official wireless news.
 Ships within wireless range.
 9 p.m. weather forecasts.
 Station announcements.
 Monday's programme.

Monday, May 14
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.
 7.50 a.m.—Studio Music.
 8 a.m.—"Big Ben." Close down.

MORNING SESSION.

- 10 a.m.—"Big Ben" and announcements.
 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 Rueter's Cables.
 11.15 a.m.—A Reading.
 11.30 a.m.—Close down.

MIDDAY SESSION.

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

AFTERNOON SESSION.

- 3 p.m.—"Big Ben" and programme announcements.
 3.5 p.m.—Joyce Simpson, pianoforte solos: (pupil of Walter Thorman).
 (a) "Berceuse" (Chopin).
 (b) "Toika" (Tchaikowsky).
 3.13 p.m.—Annie Luciano, soprano.
 3.17 p.m.—A reading.
 3.25 p.m.—Joyce Simpson, Pianoforte solo: (pupil of Walter Thorman).
 "Automne" (Chaminade).
 3.30 p.m.—Rita Head, mezzo:
 "Sunflakes" (Montague Phillips).
 3.34 p.m.—Joyce Simpson, Pianoforte solo: (pupil of Walter Thorman).
 "Gavotte and Musette" (Bach).
 3.38 p.m.—Constance Cooper soprano:
 "You in a Gondola" (Clarke).
 3.42 p.m.—From The Ambassadors:
 The Ambassadors' Dance Orchestra conducted by Al. Hammet.
 4.5 p.m.—From The Studio.
 Anne Luciano, soprano.
 4.10 p.m.—A short talk.
 4.15 p.m.—From the Ambassadors:
 The Ambassadors' Dance Orchestra.
 Conductor, Al Hammet.
 4.30 p.m.—Rita Head, mezzo:
 "Love in the Woods" (Landon Ronald).
 4.35 p.m.—Constance Cooper, soprano:
 "Ah though the Silver Moon were mine" (Lohr).
 4.40 p.m.—Studio music.
 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.

- 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.
 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.
 6.50 p.m.—Studio talk.
 7 p.m.—Dinner music.
 7.30 p.m.—Late "Evening News" news service.

NIGHT SESSION.**COMIC OPERA MEMORIES.**

- 7.40 p.m.—Programme announcements.
 7.45 p.m.—Elliott Napier will continue his series of talks on:
 "The Great Barrier Reef."
 8 p.m.—"Big Ben"; Excerpts from "Le Cloche de Cornville," by Madame Emily Marks, Soprano, and R. B. Orchard.
 8.15 p.m.—Maggie Foster, Violinist.
 8.23 p.m.—Forrest Pearson, Irish Tenor:
 (a) "Go Lovely Rose" (Roger Quilter).
 (b) "The Lilac Tree" (George Garton).
 8.30 p.m.—Graham Kent, Bridge Talk.
 8.45 p.m.—The 2FC Studio Orchestra, conducted by Horace Keats.
 Overture, "The Caliph of Bagdad" (Borel-dieu).

- 8.53 p.m.—Forrest Pearson, Irish Tenor:
 "Mary" (Richardson).
 8.57 p.m.—Excerpts from "Le Cloche de Cornville," by Madame Emily Marks, Soprano, and R. B. Orchard.
 9.7 p.m.—Late weather forecast
 The 2FC Studio Orchestra:
 Fantasia, "Martha" (Flotow).
 9.24 p.m.—Maggie Foster, Violinist.
 9.32 p.m.—The 2FC Studio Orchestra:
 (a) Suite, "At the Play" (York Bowen).
 (b) "Federal March of Da Marionette" (Gounod).
 9.47 p.m.—Excerpts from "Le Cloche de Cornville," by Madame Emily Marks, soprano, and R. B. Orchard.
 10.0 p.m.—"Big Ben"; the 2FC Studio Orchestra.
 Selection, "The Rebel Maid" (Phillips).
 10.12 p.m.—Fred Philpotts, Cornet Solos.
 10.20 p.m.—The 2FC Studio Orchestra:
 Suite, "In a Lover's Garden" (Ketelbey).
 10.30 p.m.—Late weather forecast.
 10.31 p.m.—Len Maurice, Popular choruses and Dance music.
 10.57 p.m.—Late news and to-morrow's programme.
 11.0 p.m.—"Big Ben"; National Anthem.
 Close down.

2BL, SYDNEY.

MONDAY, 14th MAY, 1928.

EARLY MORNING SESSION.

8 a.m. to 9 a.m.

MORNING SESSION.

- 10.30 a.m.—G.P.O. Clock and chimes.
 Musical programme from Studio.
 11 a.m.—G.P.O. Clock and chimes.
 Talk on "Tennis," by Miss Gwen. Varley, Broadcasters' Women's Sports Authority.
 Talk on "Preserves," by Mrs. Jordan.
 12 noon.—G.P.O. Clock and chimes.
 Special ocean forecast and weather report.
 12.3 p.m.—Musical programme from the Studio.
 12.10 p.m.—Information, mails, shipping and port directory.
 12.14 p.m.—Boats in call by wireless.
 12.16 p.m.—Fruit Market report.
 12.18 p.m.—Vegetable Market report.
 12.20 p.m.—Dairy, Farm, and Produce Market report.
 12.24 p.m.—Fish Market report.
 12.26 p.m.—Rabbit market report.
 12.28 p.m.—News from the "Sun."
 12.30 p.m.—H.M.V. Gramophone Recital.
 1.30 p.m.—G.P.O. Clock and chimes
 Talk to children, and special entertainment for children in hospitals.
 2 p.m.—G.P.O. Clock and chimes.
 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."
 4.57 p.m.—Features of evening's programme.
 4.59 p.m.—Racing resume.
 5 p.m.—G.P.O. Clock and chimes.
 Close down.

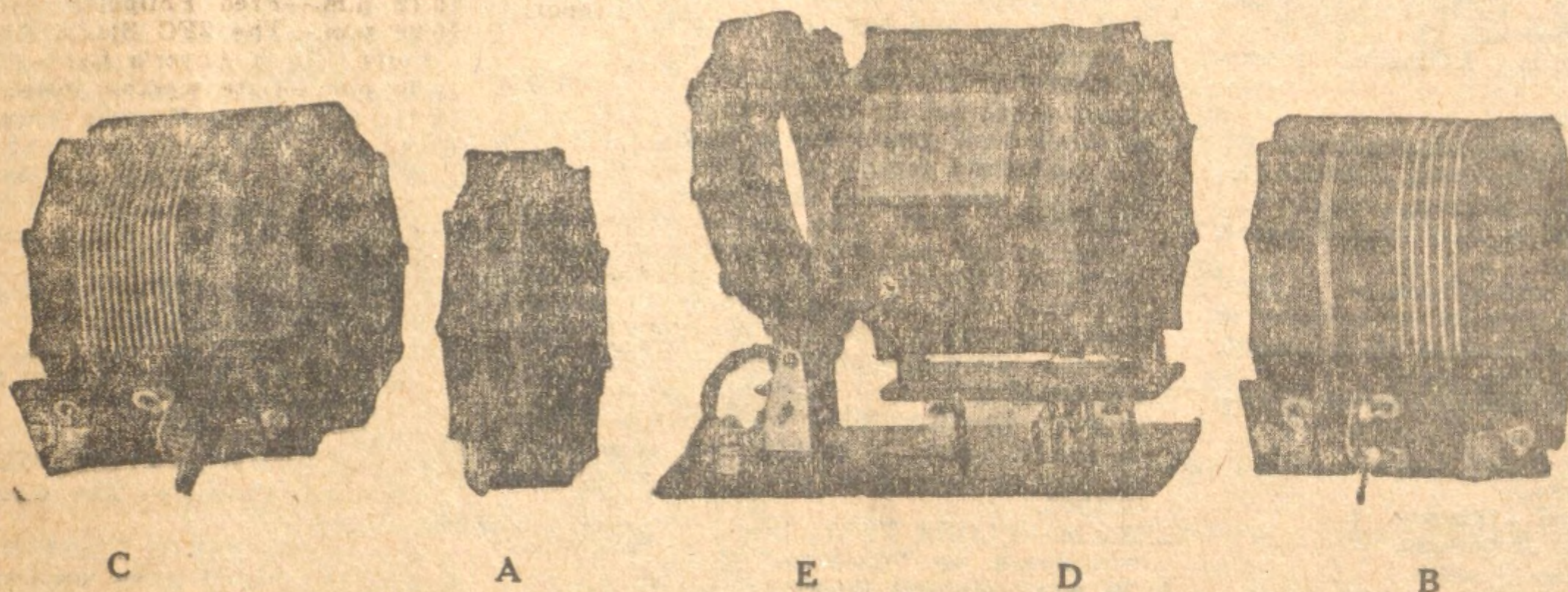
EARLY EVENING SESSION.

- 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.

The AIRZONE SHORT WAVE KIT



Airzone Air-spaced
Condenser, with
Grid-leak Clips.

5/-



Airzone R.F. Choke.
Specially recommended for the Air-
zone short-wave kit.

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| SECONDARY COIL. | TUNING RANGE WITH .00025 Mfd. CONDENSER | AERIAL COIL. |
|--------------------|--|-----------------|
| B | 16-50 M | A |
| C | 40-110 M | A |
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Here are six strong reasons why you should choose the popular Airzone Short Wave Kit when you build a set:—

- (1) Ribbed Formers give 90 per cent. air spacing, and consequently low loss. This type of Former is being adopted by the leading British Coil Manufacturers.
- (2) Robustness of the Formers prevents damage or deformation of the coils.
- (3) Unique method of plugging-in provides large surface contact, and ensures easy insertion and removal.
- (4) The provision of a separate aerial coil for Broadcast Band permits maximum efficiency on these wave lengths. This feature is exclusive to Airzone Kit.
- (5) Use of various colored wires gives coils an attractive appearance. Colors also denote type of coil—Yellow means "A," Green means "B," and so forth.
- (6) As the Kit is marketed with only one coil (the most popular), you get all you require for 30/-, instead of having to buy several coils, for which you would probably have no use.

Choose Airzone—packed in attractive box, with Multicircuit diagram and instructions on operating.

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COIL PRICES

Coil A and B,
with Base, 30/-

Coil C only, 15/-

Coils D & E only, 20/-

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House, Martin Place, Sydney.

'Phone, BW 1329.

7.5 p.m.—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.
Dairy Produce report ("Sun").
7.15 p.m.—Country news from the "Sun."
7.30 p.m.—Talk on "The Motor Car and its Idiosyncracies," by Mr. Martin, Consulting Engineer.

EVENING SESSION.

8 p.m.—G.P.O. Clock and chimes.
Scotch Night.
8.1 p.m.—Mr. Peter Sutherland, basso.
8.10 p.m.—The Wurlitzer Organ, broadcast from the Arcadia Theatre, Chatswood.
Organist, Mr. N. Robins.
8.15 p.m.—Miss Phyllis Atkinson, mezzo-soprano.
8.22 p.m.—Piper Mackay.
8.27 p.m.—Miss Bunty Stewart, contralto.
8.34 p.m.—Miss C. L. Robertson, elocutionist.
8.41 p.m.—Mr. Douglas Graham, comedian.
8.48 p.m.—Talk on Movie Players and Films, by Miss Iris Norton.
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. Lance Jeffre, tenor.
9.8 p.m.—The British Music Society String Quartette.
9.15 p.m.—Mr. Peter Sutherland.
9.22 p.m.—Piper Mackay.
9.27 p.m.—Miss Phyllis Atkinson.
9.34 p.m.—Miss C. L. Robertson.
9.41 p.m.—Mr. Douglas Graham.
9.48 p.m.—The British Music Society String Quartette.
9.55 p.m.—Mr. Lance Jeffre.
10.2 p.m.—Miss Bunty Stewart.
10.9 p.m.—Resume of following day's programme.
10.13 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.

2 UW, SYDNEY

MONDAY, 14th MAY, 1928.

EVENING SESSION.

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

3LO, MELBOURNE.

MONDAY, 14th MAY, 1928.

EARLY MORNING SESSION.

7.15 a.m.—Morning Melodies.
7.20 a.m.—PHYSICAL CULTURE EXERCISES (to music).
7.27 a.m.—Morning Melodies.
7.33 a.m.—WEATHER FORECAST for all States. Mails.

7.40 a.m.—NEWS.

8 a.m.—Melbourne Observatory Time Signal.

8.1 a.m.—Morning Melodies.

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

8.13 a.m.—Morning Melodies.

8.15 a.m.—Close down.

MORNING SESSION.

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

SEED CAKE.

$\frac{1}{2}$ lb. flour, 1 teaspoon baking powder, 2 eggs, $\frac{1}{4}$ lb. butter, $\frac{1}{4}$ lb. sugar, 1 table-spoon caraway seeds, $\frac{1}{2}$ gill milk.

METHOD: (1) Sift flour and baking powder. (2) Cream butter and sugar. (3) Add eggs, well beaten, then flour, caraway seeds, and milk. (4) Turn into prepared tin, and bake one hour in moderate oven.

ECONOMY IN PROVISION OF FOOD:

Many foods can be grown at home, in even a small back yard. Fowls may be kept to eat household scraps, the food costing only half the value of the eggs produced.

Vegetables, mint, and parsley grow well. Tomatoes and lettuces are useful for salads.

BUYING MEAT: Call for the meat yourself, and pay cash. You can then choose the most economical cut, and see that you get all the trimmings, fat, etc., to which you are entitled.

Suitable Cooking: Slow cooking when meat is tough. Casserole cooking (in slow oven, in covered dish) is a useful and economical method.

11.5 a.m.—FLORA PELL, Inspector of Schools, will speak on "Cookery."

11.20 a.m.—Musical interlude.

11.25 a.m.—OLGA PARKER, "Travelogue."

11.40 a.m.—Musical interlude.

11.45 a.m.—FRANK LUKE will speak on "Tea making."

MIDDAY SESSION.

12 noon.—Melbourne Observatory Time Signal.

12.1 p.m.—British Official Wireless News from Rugby. Reuter's and the Australian Press Association Cables. "Argus" news service.

COMMUNITY SINGING.

12.15 p.m.—Community Singing (Conductor, G. J. MACKAY), assisted by THE GYPSY PLAYERS.

Artists:

RUPERT HAZELL and ELSIE DAY:

"Harmonylarity."

MINA HESELEVA, soprano:

"Polonaise Mignon" (Thomas).

"Snow Maiden" (Rimsky-Korsakoff).

FROM THE STUDIO:

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

1.55 p.m.—Close down.

AFTERNOON SESSION.

2.15 p.m.—THE STATION ORCHESTRA:

"Evolution of Dixie" (Lake).

2.25 p.m.—OLIVER PEACOCK, baritone:

"The Pirate" (Maley).

"I'm Waiting for Ships that never Come In" (Olman).

2.30 p.m.—Official opening of the Australasian Butter and Cheese Factory Managers and Secretaries' Association 35th Annual Conference, Transmission from the Agricultural Show Grounds, Flemington. Opening speech by the Minister for Agriculture (Hon. William Slater).

3 p.m.—THE STATION ORCHESTRA:

Selected.

3.4 p.m.—KATHLEEN SIMS, soprano:

"Songs my mother taught me" (Dvorak).

"When Love is Kind" (Old English).

ORGAN RECITAL.

3.11 p.m.—C. E. MONTEATH, transmitted from St. Peter's Church, Eastern Hill, Melbourne:

"Three Excerpts from the Incidental Music to The Midsummer Night's Dream" (Shakespeare) (Mendelssohn).

Intermezzo (After the Second Act).

Necturne (After the Third Act).

Wedding March (After the Fourth Act).

This is played in honor of the lovers' re-

union. It is a fitting introduction to the marriage revels of Act V.

FROM THE STUDIO:

3.31 p.m.—THE STATION ORCHESTRA:

Selection, "No, No, Nanette" (Yeomans).

3.38 p.m.—VICTOR BAXTER, tenor:

"Lohengrin's Narration" (Wagner).

3.45 p.m.—JO. BARRILLE, flute solo:

"The Merry Lark" (Benedict).

3.50 p.m.—THE STATION ORCHESTRA:

Overture, "La Gazzra Ladra" (Rossini).

4 p.m.—OLIVER PEACOCK:

"Ah Love Will Remember" (Zucca).

"The Irish Immigrant" (Moore).

4.7 p.m.—THE STATION ORCHESTRA:

Extracts from the Ballet Suite, "Scheherazade" (Rimsky-Korsakov).

4.14 p.m.—ISOBEL BIDDELL, contralto:

"A Swan" (Grieg).

"The Bird of the Wilderness" (Horsman).

4.21 p.m.—AGNES FORTUNE, piano:

"Barcarolle in F Minor" (Rubenstein).

4.28 p.m.—KATHLEEN SIMS, soprano:

"Jeunes Filletes" (Old French).

"Mon, je ne crois pas" (Bergerettes).

4.35 p.m.—THE STATION ORCHESTRA:

"Spanish Dance-Bolero" (Moszkowski).

"There Must be a Silver Lining" (Donaldson).

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

4.46 p.m.—VICTOR BAXTER, tenor:

"When My Ships Come Sailing Home" (Francis Dorel).

"Vale" (Russell).

4.53 p.m.—THE STATION ORCHESTRA:

"Scottish Patrol"—"The Gathering of the Clans."

NEWS SESSION.

5 p.m.—"Herald" news service.

Stock Exchange information.

5.15 p.m.—Close down.

During the afternoon the results of Richmond Pony Races will be given hourly.

EVENING SESSION.

6 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."

6.40 p.m.—Mrs. C. H. DOBBIN, secretary of the Ministering Children's League, will speak on "The Cottage by the Sea." The Ministering Children's League has been going on with its good work among the sick and delicate children of the poor for many years, quietly, unostentatiously, but steadily. The League supports the "Cottage by the Sea" at Queenscliff, and during the years it has been in existence many thousands of poor children have benefited by the change of air and the care and attention of the matron and nurses at the Cottage.

It is the only home of its kind in Australia, being undenominational, unsectarian, and not affiliated with any institution. Thirty-four children are accommodated at a time, and during the season between 400 and 450 little inmates receive its benefits.

NEWS AND MARKET REPORTS.

7 p.m.—Official reports of Newmarket Stock Sales by the Association Stock and Station Agents, Bourke Street, Melbourne. Number of sheep and cattle drawn for week's sales.

7.10 p.m.—"Herald" news service.

Weather synopsis.

Shipping information.

7.12 p.m.—Stock Exchange information.

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

7.19 p.m.—River reports.

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

NIGHT SESSION.

7.30 p.m.—Under the auspices of the Boy Scouts' Association, Dr. G. Gordon McAdam will speak on "Progress of the Scout Immigration Scheme."

7.45 p.m.—E. G. H. TAYLOR will speak on "School Life and School Sport."

Wilkins Wins Through



Captain Wilkins

Burgess Adventures in the Air

Other men who carried Burgess Batteries upon their world-famous flights were—Byrd, Amundsen, Goebel and Williams.

All Burgess equipped were "The Pride of Detroit," famed for its Atlantic flight, "The Sir John Garling," "The Royal" and "The Sikorsky."

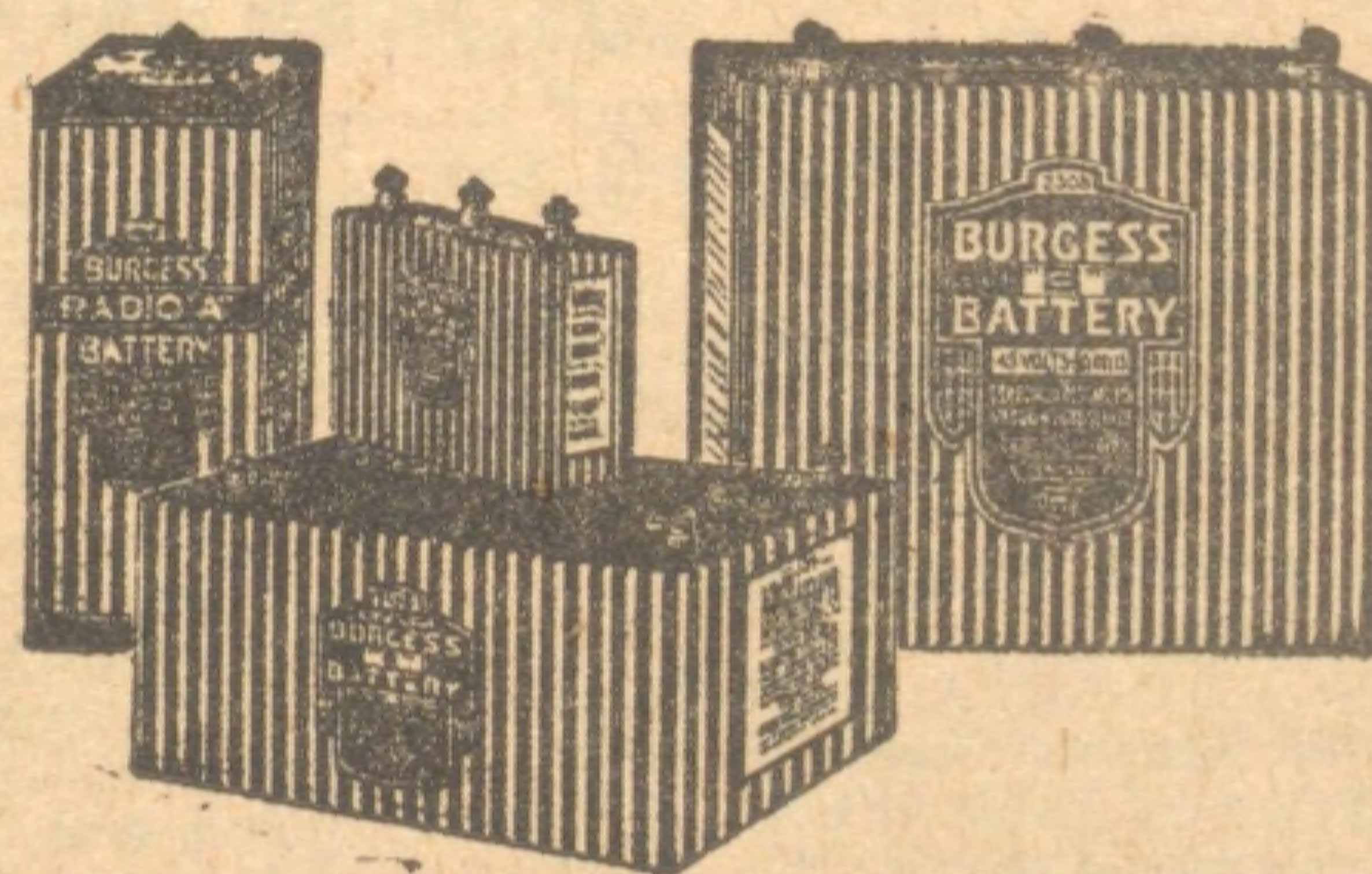
BURGESS
CHROME-BUILT RADIO
BATTERIES

Endurance and staying power, in batteries or men, will always win success.

Wilkins — gallant Australian — has now made a record flight of the Pole.

The World remembers his previous venture in which Burgess Batteries distinguished themselves by their staying power, and played such a famous part.

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OUT OF THE PAST.

8 p.m.—This is the anniversary of the opening of the Sydney Mint, in 1855. Birthday Greetings and Programme Announcements.

MUSICAL COMEDY.

1st ACT of "THE GIRL FRIEND," transmitted from "The Theatre Royal, Melbourne (by permission J. C. Williamson, Ltd.):

A MUSICAL COMEDY,

Adapted from P. Bartholomae and Otto Harbach's "KITTY'S KISSES," by R. P. Weston and Bert Lee.

Music and Lyrics by Con Conrad, Gus Kahn, Richard Rodgers and Lorenz Hart,

with

ANNIE CROFT.

Her First Appearance in Australia.

PRODUCED BY FREDERICK BLACKMAN.

Characters

(in order of their appearance):

Porter, DAN NIBLO.

Mrs. Burke, ROSIE LE VARDE.

Mr. Burke, HARRY WOTTON.

A Girl on the Train, WINNIE TATE.

A Country Girl, TUI BLACK.

Robert Mason (First Appearance in Australia), REGINALD SHARLAND.

Kitty Brown (First Appearance in Australia), ANNIE CROFT.

Jennie (First Appearance in Musical Comedy), LORNA HELMS.

Jerry, LEO FRANKLIN.

Miss Wendell, ROWENA RONALD.

Phillip Dennison, FRANK LEIGHTON.

Johnny, DAN NIBLO.

Richard Dennison, GUS BLUETT.

Mrs. Dennison, MARIE LE VARRE.

Hotel Visitor, WINNIE TATE.

Night Clerk, FREDERICK CONYNGHAM.

Mary, KATIE TOWERS.

1st Bell Boy, BILLY FREEMAN.

2nd Bell Boy, CHARLIE BOYD.

ACT I.

Scene 1. A Railway Siding on the Canadian Pacific Railway.

Scene 2. In the Dining Car.

Scene 3. Lounge of the Hotel Wendell (evening).

MUSICAL NUMBERS.

ACT 1. SCENE I.

Overture.

Opening Chorus, "Step on the Track."

Blue Room, Annie Croft and Reginald Sharland.

SCENE II.

Reprise, "Blue Room," Annie Croft and Quartette.

SCENE III.

Opening Chorus, "Boys of Hagerstown."

"The Girl Friend," Lorna Helms and Leo Franklin.

"I Travel the Road," Annie Croft.

"We must discover that girl," Gus Bluett, Reginald Sharland and Frank Leighton.

FROM THE STUDIO:

9.15 p.m.—THE GYPSY PLAYERS:

"Ballet Suite" (Gluck).

9.25 p.m.—MINA HESELEVA, soprano:

"Two Songs by Rachmaninoff."

9.32 p.m.—BERTHA JORGENSEN, violin:

"Air from Goltzman Concerto."

9.40 p.m.—ERNEST SAGE, baritone:

"Gracious and kind art thou, my Queen" (Brahm).

Selected.

9.47 p.m.—THE GYPSY PLAYERS:

"Triffo" (Hady).

9.54 p.m.—MINA HESELEVA, soprano:

"Bell Song"—"Lakme" (Delibes).

"Nightingale" (Alanief).

10.1 p.m.—THE GYPSY PLAYERS:

"Irish Pictures" (Ansell).

10.8 p.m.—ERNEST SAGE, baritone:

"The Rose Eternal" (Derwood).

"Bianca" (Tite Mattei).

NEWS SESSION.

10.15 p.m.—"Argus" news service, Meteorological information. British Official Wireless News from Rugby.

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

"It isn't what you handle, it's the way you handle it that causes accidents."

SOME SENSE AND SOME NONSENSE.

10.25 p.m.—RUPERT HAZELL, and ELSIE DAY:

"Harmonylarity."

10.37 p.m.—THE VAGABONDS:

"Me and My Shadow" (Jolson).

"Pleading" (Jones).

"Down in Old Havana Town" (Friend).

10.46 p.m.—GORDON JAMES, baritone:

"To Anthea" (Hatton).

"Just You" (Burleigh).

10.53 p.m.—THE VAGABONDS:

"Russian Lullaby" (Berlin).

"Hide, Hide" (Huffer).

"Dance of the Fireflies," Piano solo (Bloom).

11 p.m.—SEE VICTORIA FIRST.

OUR GREAT THOUGHT:

"The happiness of the human race does not consist in our being devoid of passions, but in our learning to command them."—From the French.

11.1 p.m.—GORDON JAMES, baritone:

"Rage, Thou Angry Storm" (Benedict).

"Cargoes" (Tom Dobson).

11.8 p.m.—THE VAGABONDS.

MOONLIGHT MELODY.

11.40 p.m.—"GOD SAVE THE KING."

3AR, MELBOURNE

MONDAY, 14th MAY, 1928.

EARLY MORNING SESSION.

10 a.m.—Description of the arrival of the Mail Liner from Overseas at Princes Pier, Port Melbourne by Mr. J. D. Porter of the "Graphic."

MORNING NEWS SESSION.

11 a.m. to 12 noon.

MIDDAY CONCERT SESSION.

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

12.1 p.m.—Court Symphony Orchestra.

MATTINEE SESSION.

ORCHESTRAL DANCE CONCERT.

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

2 p.m.—Ayarz Dansonians.

A half-hour Dance Session of the latest popular dance hits by Melbourne's favorite Dance Band. Each one announced prior to its presentation.

2.30 p.m.—Melbourne Concert Orchestra.

"Scenes Pittoresques" (Massenet).

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

"Keep on Hopin'" (Stanton).

"The next market day" (Ulster Melody).

2.52 p.m.—Melbourne Concert Orchestra.

"Norwegian Suite" (Schytte).

"In the ruins" (Kempinski).

3.7 p.m.—Mr. C. Richard Chugg, flute:

"Arabesque" (Debussy).

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

"Down by the Sally Gardens" (Old Irish).

"The Organ Man" (Schubert).

3.18 p.m.—Ayarz Dansonians:

Fox trot, "Persian Rug" (Kahn).

Fox trot, "So Long" (Burke).

Fox trot, "Guatemala Melody" (Wenrich).

Waltz, "Ole Virginny's Lullaby" (Pollock).

3.30 p.m.—Interval Announcements.

3.40 p.m.—Melbourne Concert Orchestra.

"Two Hindoo Pictures" (Hansen and Lotter).

"Three Irish Pictures" (Ansell).

4 p.m.—G.P.O. Clock says "Four."

4.1 p.m.—Second Weather forecast.

4.8 p.m.—Mr. William Storr, baritone

"The Carpet" (Sanderson).

"I pitch my lonely caravan at night"

(Coates).

4.11 p.m.—Ayarz Dansonians.

4.27 p.m.—Mr. William Storr, baritone:

"Bo's Epas" (Lully).

"One of the Guards" (Fisher).

4.35 p.m.—Melbourne Concert Orchestra:

"Ballet Suite Coppelia" (Delibes).

4.50 p.m.—To-night's Entertainment.

4.55 p.m.—Special racing report, acceptances and barrier positions for the Bendigo Races (1st Day) by "Daybreak."

5 p.m.—G.P.O. Clock says "Five."

God Save the King.

CHILDRENS SESSION.

6.30 p.m.—3AR's Cousin Peter.

EVENING SESSION.

EVERYBODY'S CONCERT.

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

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

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

7.45 p.m.—Miss Violet Ley, playing in "Mr. What's his Name" will speak from her dressing-room at the Athenaeum Theatre.

7.50 p.m.—Macnamara's Stock report.

8 p.m.—G.P.O. Clock says "Eight."

8.1 p.m.—Melbourne Concert Orchestra:

Overture, "Ilka" (Doppler).

"Three African Dances" (Montague Ring).

8.17 p.m.—Miss Shell Paterson, soprano:

"The Fairy Laundry" (Phillips).

"Wondering Why" (Clarke).

8.25 p.m.—Ayarz Dansonians.

8.42 p.m.—Miss Shell Paterson, soprano:

"Bells of Twilight" (Forster).

"His little Teddy Bear" (Levey).

8.50 p.m.—Announcements.

9.2 p.m.—Melbourne Concert Orchestra:

"Four Spanish Pictures" (A. Luzzatti).

"Minnesold" (Joan Fresco).

9.17 p.m.—Mr. Howard Andrews, baritone:

"Youny Tom O' Devon" (Kennedy Russell).

"Inter Nos" (Kennedy Russell).

9.25 p.m.—Mr. Ken Code, trombone:

"The Jockey Polka" (Teasdale).

9.29 p.m.—"Harlequin." Sports results

9.38 p.m.—Ayarz Dansonians:

Fox Trot, "Coquette" (Green).

Fox Trot, "Down in Old Havana Town"

(Friend).

Waltz, "Falling in Love" (Meyer).

Fox trot, "Waitin' for Katy" (Shapiro).

9.50 p.m.—Announcements.

10 p.m.—G.P.O. Clock says "Ten."

10.1 p.m.—Semi-Final Weather forecast,

specially for our Country Listeners.

10.3 p.m.—Melbourne Concert Orchestra.

Selection, "Merrie England" (Ed. German).

"Minnuten Spiele" (Oscar Fetras).

10.28 p.m.—Mr. Howard Andrews, baritone.

"Love of Freedom" (Schumann).

"Why, oh, why are the roses" (Tschaiowsky).

10.36 p.m.—Ayarz Dansonians:

Fox trot: "I'm in love again" (Porter).

Fox trot, "Guatemala Melody" (Weinrich).

Waltz, "Charmaine" (Pollack).

Fox trot, "Red Lips" (Wendling).

10.52 p.m.—"The Age" News Bulletin, ex-

clusive to 3AR.

10.58 p.m.—Final Weather forecast.

10.59 p.m.—Our Australian Good Night Quote

is taken from the poem, "The Moon-Flower" by Lala Fisher.

11 p.m.—G.P.O. Clock says "Eleven."

God Save the King.

4QG, BRISBANE.

MONDAY, 14th MAY, 1928.

MORNING SESSION.

10.30 a.m. to 11.30 a.m.

MIDDAY SESSION.

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

1.30 p.m.—FROM THE PARIS CAFE:

Lunch hour music.

1.58 p.m.—From the Observatory:

Standard time signal.

2 p.m.—Close down.

AFTERNOON SESSION.

3.30 p.m.—Mail train running times.

3.31 p.m.—A programme of music from the studio.

4.15 p.m.—FROM THE STUDIO:

"The Telegraph" news.

4.30 p.m.—Close down.

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| Bakelite | 0 | 11 | 3 | 1 R.F. Choke Radiokes | 0 | 8 | 6 |
| 3 Shock Absorber Sockets, Benjamin, 4/6 | | | | 1 Double Circuit Jack | | | |
| each; Emmco, each | 0 | 2 | 6 | 1 Single Circuit Jack | | | |
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| 2 Benjamin Sub-panel Brackets | 0 | 4 | 6 | Electrad | 0 | 3 | 0 |
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| denser, reduced to correct capacity .. | 1 | 17 | 0 | 1 .006 T.C.C. Condenser | 0 | 3 | 9 |
| 1 .00025 Advance Condenser | 0 | 10 | 6 | 7 Moulded Top Terminals | 0 | 1 | 9 |
| 1 Emmco de Luxe Dial | 0 | 9 | 6 | 1 Socket and Plug, E.C.S. | 0 | 0 | 9 |
| 1 30 ohm. De Jur Rheostat | 0 | 2 | 6 | 1 Doz. Bus Bar | 0 | 0 | 10 |
| 1 Electrad Battery Switch | 0 | 2 | 0 | 1 Length Solder | 0 | 0 | 3 |
| 1 doz. N.P. Wood Thread Screws | 0 | 0 | 4 | 1 Doz. Metal Thread Screws, N.P. | 0 | 1 | 0 |

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| tor, 3003 | 11 15 0 | Dep. 23/6; Weekly 11/9. | Dep. 29/6; Weekly 4/5 |
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| Emmco Super Eliminator | 12 12 0 | Dep. 26/—; Weekly 12/7. | Dep. 31/6; Weekly 4/8 |
| Philco 83X Wet Battery | 8 15 0 | Dep. 17/6; Weekly 8/9. | Dep. 22/—; Weekly 3/3 |
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| R.C.A. Speaker, 100A | 10 10 0 | Dep. 21/—; Weekly 10/6. | Dep. 19/6; Weekly 2/11 |
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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: "Ice, Water and Steam"—Mr. Inigo Jones.
 6.28 p.m.—Announcements.
 6.30 p.m.—Bedtime stories by "The Sandman."
 7.3 p.m.—Market reports.
 7.25 p.m.—Fenwick's stock report.
 7.30 p.m.—Weather information.
 7.40 p.m.—Announcements.
 7.43 p.m.—Standard time signals.
 7.45 p.m.—Lecturette: "Dairying Problems"—Mr. M. L. Cameron (Department of Agriculture and Stock).

NIGHT SESSION.

THE SILKSTONE APOLLO CLUB.

- 8 p.m.—FROM THE STUDIO:
 National Anthem. Topical Chorus.
 8.3 p.m.—A Thought for To-night—"From Death to Life."
 Will H. Lister.
 8.6 p.m.—Chorus:
 "Ye Mariners of England" (Pierson).
 The Silkstone Apollo Club (conductor, Mr. T. Westwood).
 8.9 p.m.—Selection:
 "The Student Prince" (Romberg).
 Miss Doris Carritte (violin), and Miss Anne Crommelin (piano), from the orchestra of the a.s. "Orungal."
 8.17 p.m.—Chorus:
 "Parted" (Tosti).
 Mr. A. Wilcox.
 8.17 p.m.—Tenor solo:
 "Nelly Grey" (Tom Sutton).
 The Silverstone Apollo Club.
 8.20 p.m.—Musical monologue:
 "Shut up" (Reynolds).
 Mr. D. Owen.
 8.22 p.m.—Orchestra:
 "By the Water of Minnetonka" (Lieurance).
 Miss Doris Carritte and Miss Anne Crommelin.
 8.24 p.m.—Chorus:
 "Annie Laurie" (H. E. Button).
 8.27 p.m.—Baritone solo:
 "The Drover" (Stoneham).
 Mr. A. E. Little.
 8.29 p.m.—Concertina selection.
 Mr. W. Collins.
 8.33 p.m.—Chorus:
 "Rest, Dearest, Rest" (Kucken).
 The Silkstone Apollo Club.
 8.39 p.m.—Selection from "Lucia di Lammermoor" (Arr. Gustav Saenger).
 Miss Doris Carritte and Miss Anne Crommelin.
 8.44 p.m.—Bass solo:
 "The Lute Player" (Allitsen).
 Mr. V. B. Morris.
 8.50 p.m.—Chorus:
 "Song of the Jolly Roger" (Canish).
 Silkstone Apollo Club.
 8.53 p.m.—Piano solo: Selected.
 Miss T. Marsh.
 8.57 p.m.—Chorus:
 "Softly, Softly o'er the Sea" (Percival).
 Silkstone Apollo Club.
 9 p.m.—Metropolitan forecast.
 9.1 p.m.—Selection:
 "Luxembourg Valse" (Franz Lehar).
 Miss Doris Carritte and Miss Anne Crommelin.
 9.9 p.m.—Tenor:
 "Battle of Stirling."
 Mr. T. Westwood.
 9.13 p.m.—Concertina selection.
 Mr. W. Collins.
 9.18 p.m.—Chorus:
 "On the Ramparts" (Saintis).
 Silkstone Apollo Club.
 9.23 p.m.—Orchestral:
 "Three Songs of the Norseland" (Lorr).
 "Three Songs of the Norseland" (Lohr).
 Crommelin.
 9.28 p.m.—Baritone solo:
 "For God and St. George" (Stoneham).
 Mr. J. A. R. Thompson.
 9.33 p.m.—Chorus:
 "The Wanderer's Song" (Abt).
 Silkstone Apollo Club.

- 9.37 p.m.—Violin solo:
 "Spanish Dance" (arr. Saenger).
 Miss Doris Carritte.
 9.43 p.m.—Elocutionary:
 "Sister's Friend" (Anon.).
 Mr. D. Owens.
 9.48 p.m.—Final chorus:
 "Crossing the Plain" (T. Maldwin Price).
 Silkstone Apollo Club.
 9.53 p.m.—"Daily Mail" news service.
 9.58 p.m.—Weather information.
 10.5 p.m.—Close down

5CL, ADELAIDE
MONDAY, 14th MAY, 1928.

MIDDAY SESSION.

12 noon to 2 p.m.

AFTERNOON SESSION.

- 3 p.m.—G.P.O. Chimes.
 3.1 p.m.—Musical numbers from the Studio.
 3.30 p.m.—Menu talk by "Homelover."
 3.45 p.m.—Musical numbers on the studio "Recreator."
 4.57 p.m.—S. C. Ward and Co.'s Stock Exchange Intelligence.
 5 p.m.—G.P.O. Chimes and close down.

EVENING SESSION.

- 6 p.m.—G.P.O. Chimes.
 6.1 p.m.—Children's entertainment.
 6.30 p.m.—Dinner Music from the studio.
 7 p.m.—G.P.O. Chimes.
 7.1 p.m.—General Market reports by A. W. Sandford and Co., A. E. Hall and Co., Dalgety and Co., S.A. Farmers Co-operative Union Taylor Bros., Retail Grocers Association, Interstate Fruit and Produce Market Co. Ltd.
 7.10 p.m.—S. C. Ward and Co.'s Stock Exchange Intelligence.
 7.15 p.m.—Resume of the previous Saturday's sporting.
 7.30 p.m.—"The care of the Clothes" by Ford Bros.
 7.40 p.m.—A scientific talk.
 7.55 p.m.—Station Announcements.
 8 p.m.—G.P.O. Chimes.
 8.1 p.m.—"The Twinkler" and his 5CL Boys Club.
 8.21 p.m.—Allegro Instrumental Trio.
 8.29 p.m.—Will Runge, humorist.
 8.37 p.m.—Allegro Instrumental Trio.
 8.44 p.m.—Harry Hutchins, violinist.
 8.50 p.m.—Ern Bailey, tenor.
 8.57 p.m.—Allegro Instrumental Trio.
 9.1 p.m.—Meteorological information, weather forecast.
 9.2 p.m.—Dalgety's wheat report.
 9.3 p.m.—International News.
 9.9 p.m.—Will Runge, humorist.
 9.17 p.m.—Harry Hutchins, violinist.
 9.28 p.m.—Ern Bailey, tenor.
 9.35 p.m.—Allegro Instrumental Trio.
 9.43 p.m.—More humor by Will Runge.
 9.50 p.m.—Margaret Pirie, contralto.
 9.53 p.m.—Allegro Instrumental Trio.
 10.1 p.m.—"Advertiser" news Service.
 10.8 p.m.—Wireless Shipping contacts.
 10.10 p.m.—Jean Findlay, pianoforte recital.
 10.16 p.m.—Madame Back, soprano.
 10.23 p.m.—Allegro Instrumental Trio.
 10.28 p.m.—Margaret Pirie, contralto.
 10.35 p.m.—Gerald Moyes, baritone.
 10.42 p.m.—Jean Finlay, pianoforte recital.
 10.49 p.m.—Madame Back, soprano.
 10.52 p.m.—Gerald Moyes, baritone.
 10.55 p.m.—Meteorological information, station announcements, to-morrow's programme.
 11 p.m.—G.P.O. Chimes and National Anthem.

6WF, PERTH.

MONDAY, 14th MAY, 1928.

MIDDAY SESSION.

- 12.30 p.m.—Tune in.
 12.35 p.m.—Markets, News and cables.
 1 p.m.—Time signal.
 1.1 p.m.—Weather notes supplied by the Meteorological Bureau of Western Australia.
 1.2 p.m.—Lunch Hour 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, Director of the Zoological Gardens, South Perth.
 8 p.m.—Time signal.
 8.1 p.m.—Weather notes supplied by the Meteorological Bureau of Western Australia.
 Station announcements such as alterations to programmes, etc.
 8.3 p.m.—Concert Night.
 Musical programme from the studio, including vocal and instrumental artists.
 10 p.m.—Late news items by courtesy of "The Daily News" Newspaper Co.
 Ships within Range announcement.
 Weather report and forecast.
 10.30 p.m.—Close down.
 104.5 METRE TRANSMISSION.
 Simultaneous broadcast on 104.5 metres of Programme given on 1250 metres, commencing at 6.45 p.m.

7ZL, HOBART

MONDAY, 14th MAY, 1928.

MORNING SESSION.

11 a.m. to 12 noon.

AFTERNOON SESSION.

- 3 p.m.—G.P.O. Clock chimes the hour.
 3.1 p.m.—Musical selection.
 3.5 p.m.—Hobart Stock Exchange quotations.
 Weather information.
 Items of interest: Announcements.
 3.15 p.m.—Selections by 7ZL Studio Trio.
 Valse, "Rosammunde" (Berger).
 Suite, "Moderne" (Rosse).
 Violin solo, Selected, Mr. E. J. McCann.
 "Dreaming" (Wood).
 Selection, "Tip Toes" (Gershwin).
 March, "Solennelle" (Tchaikowsky).
 4.15 p.m.—Fashion Talk, by Aunt Edna, of Brownells, Ltd.
 4.30 p.m.—Close down.

EARLY EVENING SESSION.

- 6.30 p.m.—Uncle Hector talks to the children.

NIGHT SESSION.

- 7.30 p.m.—Musical selection.
 7.35 p.m.—Cooking talk by "Regulo."
 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.—Concert by Derwent Concert Band.
 Conductor, Mr. T. W. Hopkins.
 9.40 p.m.—British official wireless news.
 9.50 p.m.—"Mercury" special Interstate news service.
 Ships within wireless range.
 Tasmanian District Weather reports.
 9 p.m.—Weather forecasts.
 Weather reports from Australian Capital cities.
 Station announcements.
 Tuesday's programme.
 10 p.m.—Close down.

Tuesday, May 15
2FC, SYDNEY

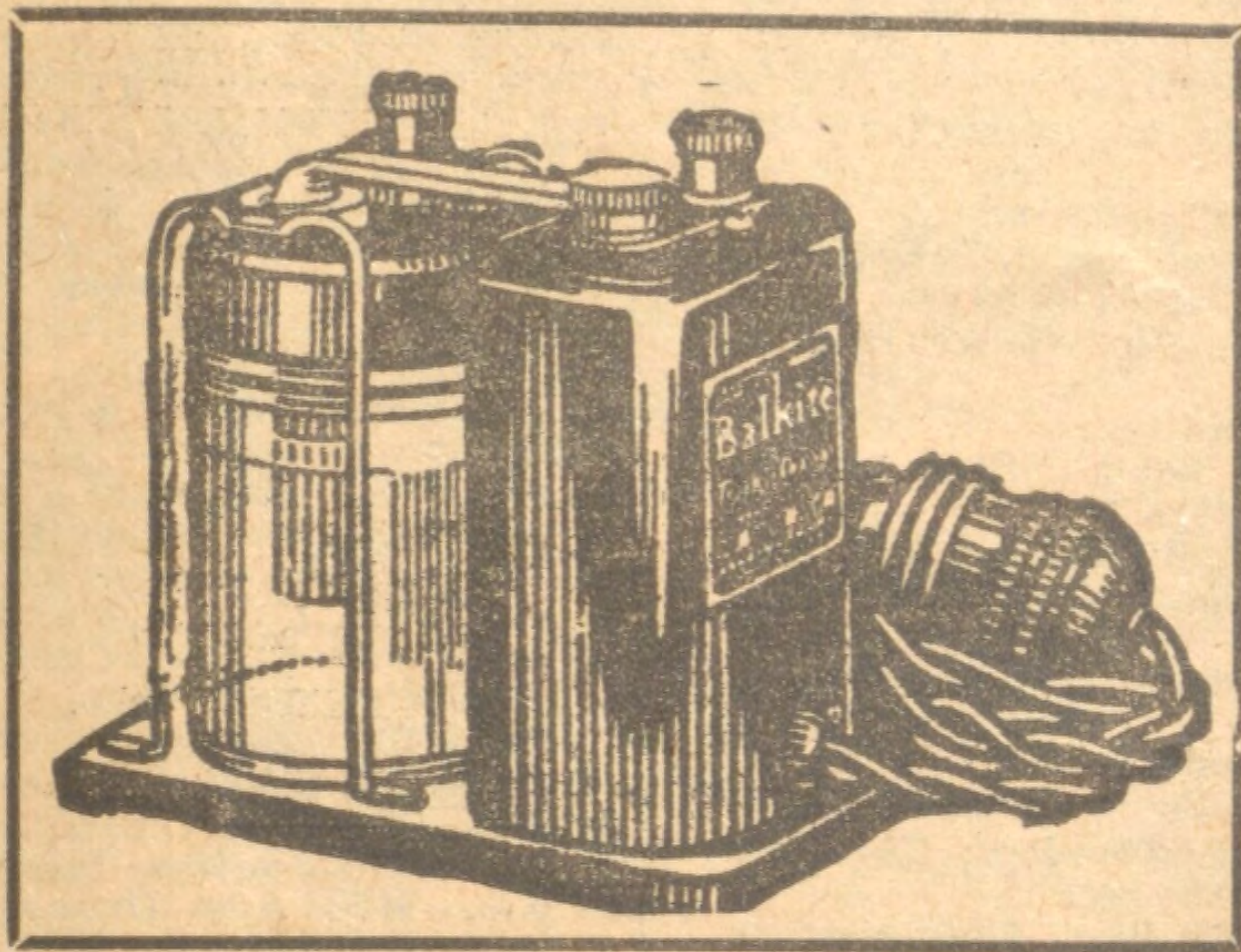
EARLY MORNING SESSION.

- 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

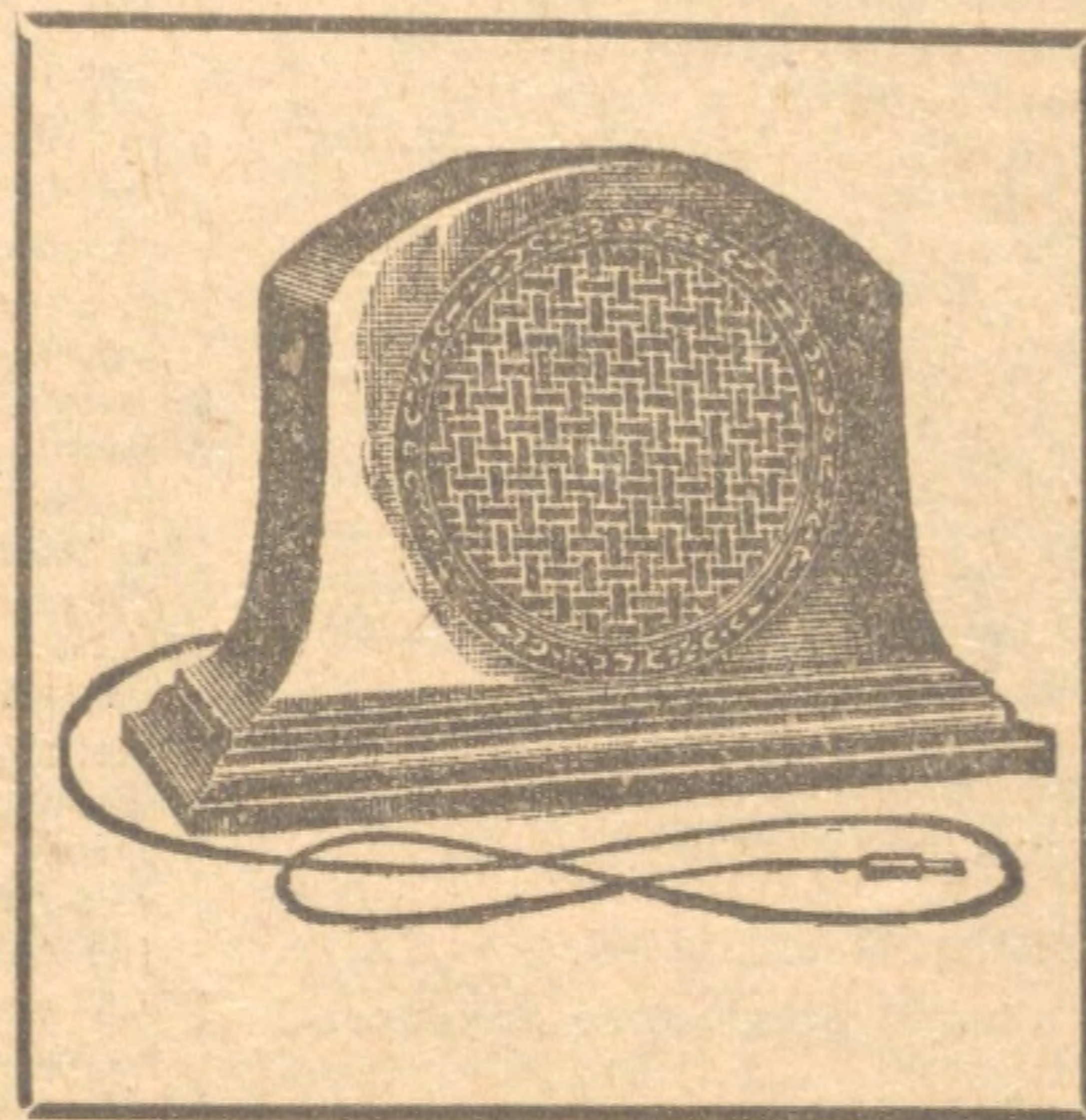
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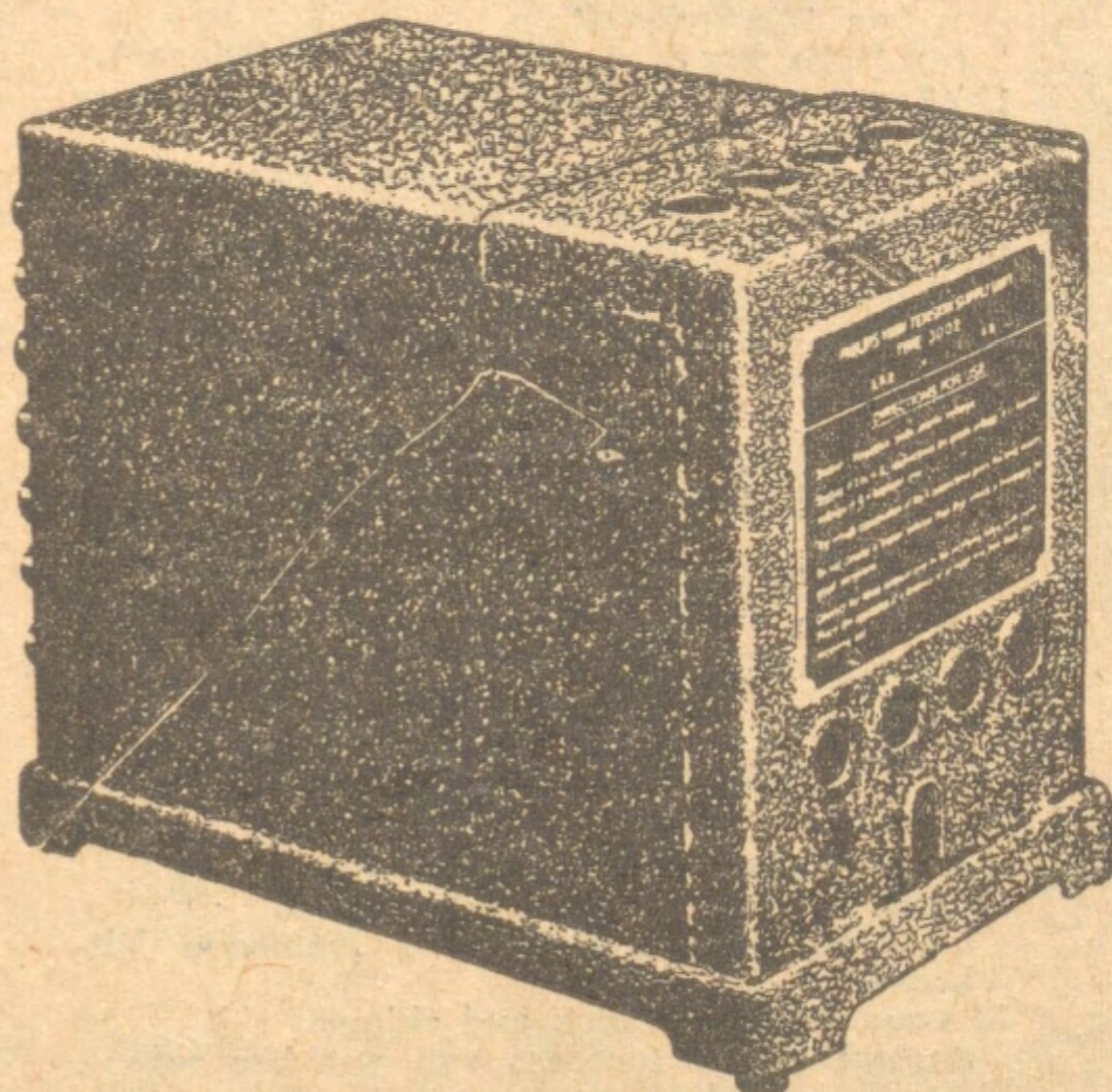
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"THE TIME PAYMENT HOUSE"

388 George Street Opp. Beard Watson's SYDNEY

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.
 10.30 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" and studio music.
 11.5 a.m.—A.P.A. and Rueter's Cable Services.
 11.15 a.m.—A cooking talk by Miss Ruth Furst
 11.30 a.m.—Close down.

MIDDAY SESSION.

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

AFTERNOON SESSION.

2 p.m.—"Big Ben" and programme announcements.
 2.5 p.m.—"Edison" Half-hour.
 3.30 p.m.—Doris Hestelow, mezzo:
 "It is only a tiny garden" (Haydn Wood).
 3.34 p.m.—Violin solo;
 Pupil of S. Vost Janssen.
 3.42 p.m.—Daisy Tollis, soprano:
 "I come to you" (Noel Johnson).
 3.45 p.m.—A Reading.
 4 p.m.—"Big Ben." Violin solo:
 Pupil of S. Vost Janssen.
 4.8 p.m.—May Craven, mezzo:
 "Love's Coronation" (Florence Alyward).
 4.12 p.m.—Popular records.
 4.20 p.m.—Doris Hestelow, mezzo.
 4.24 p.m.—Violin solo:
 Pupil of S. Vost Janssen.
 4.30 p.m.—Daisy Tollis, soprano:
 "Buy by Strawberries" (Herbert Oliver).
 4.35 p.m.—Studio music.
 4.40 p.m.—May Craven, mezzo:
 "The Boat Song" (Harriet Ware).
 4.45 p.m.—Stock Exchange, third call.
 4.47 p.m.—Studio music.
 5 p.m.—"Big Ben." Close down.

EARLY EVENING SESSION.

5.40 p.m.—The chimes of 2FC.
 5.45 p.m.—The "Hello Man" talks to the children.
 6.25 p.m.—Children's Music.
 6.30 p.m.—Late Sporting news.
 6.35 p.m.—Dalgety's market report (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.—Studio talk.
 7 p.m.—Dinner Music.
 7.30 p.m.—Late "Evening News" news service.

NIGHT SESSION.

BAND MUSIC.

7.40 p.m.—Programme announcements.
 7.45 p.m.—Grattan Smith, Book Review.
 8.0 p.m.—"Big Ben." The New South Wales Tramway Band:
 (a) Overture, "Martha" (Flotow), (arr. Hawkins).
 (b) March, "Tinturn Abbey" (Ord Hume).
 8.15 p.m.—Raymond Ellis, English Operatic Baritone. Farewell appearance before leaving for London.

8.25 p.m.—The New South Wales Tramway Band:
 Waltz, "Tesoro Mio" (Becucci).
 8.33 p.m.—Mabel Batchelor, Soprano:
 (a) "The Spring is in my Garden" (Tennent).
 (b) "Spring Dropped a Song Into My Heart" (Tennent).
 8.40 p.m.—The New South Wales Tramway Band:
 Fantasia, "Songs of Gallant Wales" (Greenwood).
 8.48 p.m.—Edgar Warwick and Eileen Dawn:
 Sketch, "A Simple Affair" (Warwick).
 9.0 p.m.—"Big Ben"; Late weather forecast.
 9.1 p.m.—The New South Wales Tramway Band:
 Intermezzo, "Hypatia" (Ord Hume).
 9.7 p.m.—Raymond Ellis, English Operatic Baritone.
 9.20 p.m.—The New South Wales Tramway Band:
 Selection, "La Sonnambula" (Bellini).
 9.32 p.m.—Mabel Batchelor, Soprano:
 (a) "Will ye no Come Back Again" (Jacobite air).
 (b) "Rosebuds" (Arditti).
 9.40 p.m.—The New South Wales Tramway Band:
 March, "Blaze Away" (Holyman).
 9.46 p.m.—Edgar Warwick and Eileen Dawn:
 Sketch, "Two in a Flat" (Warwick).
 9.54 p.m.—The New South Wales Tramway Band:
 Duet, "Traviata" (Verdi).
 10.0 p.m.—"Big Ben." Captain Fred Aarons:
 "Blunders We All Make."
 10.8 p.m.—From the Ambassadors: The Ambassadors' Dance Orchestra. Conductor, Al Hammet.
 10.18 p.m.—From the Studio: Charles O'Mara, Entertainer:
 (a) "Mr. Pat O'Hare" (Ball).
 (b) "Off to Philadelphia" (Battison Haynes).
 10.25 p.m.—From the Ambassadors: The Ambassadors' Dance Orchestra.
 10.35 p.m.—From the Studio. Late weather forecast.
 Charles O'Mara, Entertainer:
 (a) "The Ballymoney Convergence" (Jackson).
 (b) "Some Stories of the Dublin Jarvey" or "Cardriver."
 (c) "The Bard of Armagh" (Traditional).
 10.43 p.m.—From the Ambassadors: Dance Music.
 10.57 p.m.—From the Studio: To-morrow's programme and late news.
 11.0 p.m.—"Big Ben." From the Ambassadors: Dance Music.
 11.45 p.m.—National Anthem. Close down.

2BL, SYDNEY.

TUESDAY, 15th MAY, 1928.

EARLY MORNING SESSION.

8 a.m. to 9 a.m.

MORNING SESSION.

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

AFTERNOON SESSION.

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

3 p.m.—G.P.O. Clock and chimes.
 News from the "Sun."
 3.15 p.m.—Civil Service Stores Trio—direction Miss de Courcey Bremer.
 3.30 p.m.—G.P.O. Clock and chimes.
 News from the "Sun."
 3.40 p.m.—Pianoforte Recital from studio.
 3.50 p.m.—News from the "Sun."
 4 p.m.—G.P.O. Clock and chimes.
 Civil Service Stores Trio.
 4.15 p.m.—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 evenings programme.
 4.57 p.m.—Producer's 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.
 7.5 p.m.—Australian Mercantile Land and Finance Co.'s report.
 Weather report and forecast by courtesy of Govt. Meteorologist.
 Producers Distributing Society's Fruit and Vegetable Market report.
 Stock Exchange report.
 Grain and Fodder report ("Sun.")
 Dairy Produce report ("Sun.")
 N.R.M.A. Report.
 7.15 p.m.—News from the "Sun."
 7.30 p.m.—Talk on "First Aid" by a member of the St. John Ambulance Association.
 8 p.m.—G.P.O. Clock and chimes.
 Broadcasters' Topical Chorus.
 8.3 p.m.—Miss Amy Ostinga, contralto.
 8.10 p.m.—Broadcasters Instrumental Trio.
 8.17 p.m.—Mr. Micheal O'Connell, elocutionist.
 8.24 p.m.—Mr. Leo. Packer, baritone.
 8.31 p.m.—Broadcasters Instrumental Trio.
 8.38 p.m.—Miss Amy Ostinga.
 8.45 p.m.—Broadcasters Instrumental Trio.
 8.52 p.m.—Mr. Leo Packer.
 8.59 p.m.—Weather report and forecast by courtesy of Mr. Mares, Govt. Meteorologist.
 9 p.m.—G.P.O. Clock and chimes.
 9.1 p.m.—Mr. Michael O'Connell.
 9.8 p.m.—Tooth's Brewery Band (Conductor, Mr. H. S. Thomas).
 9.28 p.m.—The Sydney Welsh Male Voice Party.
 9.35 p.m.—Tooth's Brewery Band.
 9.55 p.m.—The Sydney Welsh Male Voice Party
 10.2 p.m.—Sketch by Miss May Nancarrow and Mr. Wm. Collins.
 10.12 p.m.—Resume of following day's programme.
 10.15 p.m.—The Wentworth Cafe Orchestra under the direction of Mr. Jimmy Elkins.
 During intervals between dances "Sun." news will be broadcast.
 11.30 p.m.—G.P.O. Clock and chimes.
 National Anthem.

2 UW, SYDNEY

TUESDAY, 15th MAY, 1928.

EVENING SESSION.

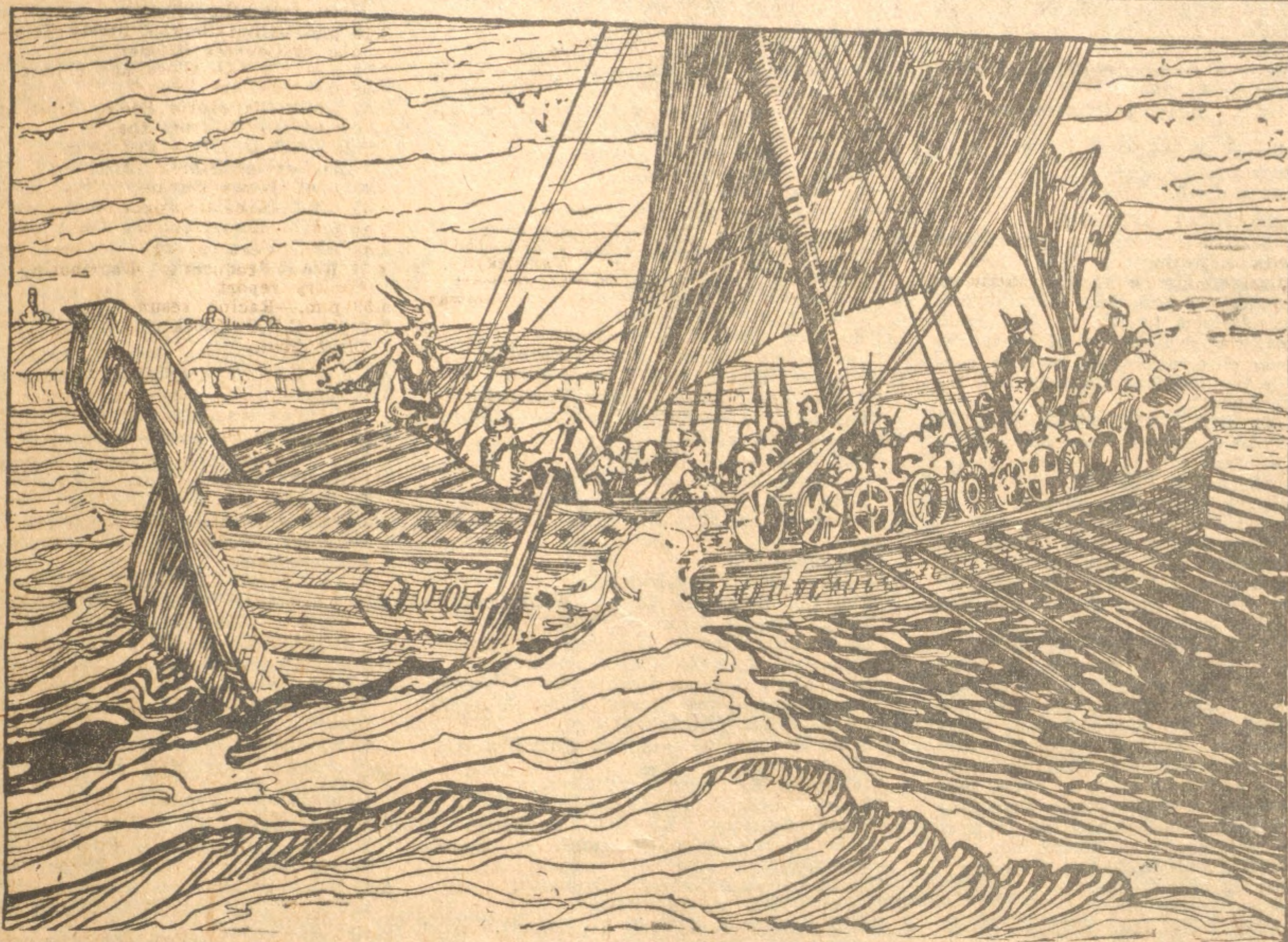
7 p.m.—Studio items.
 7.10 p.m.—Where to go session.
 7.15 p.m.—Dinner music.
 7.45 p.m.—Vocal and instrumental items.
 8 p.m.—News, mails and shipping.
 8.20 p.m.—Studio items.
 8.50 p.m.—Weather report.
 8.54 p.m.—Vocal and instrumental items from studio.
 9.30 p.m.—Dance selections and request numbers.
 10 p.m.—Close down.

3LO, MELBOURNE

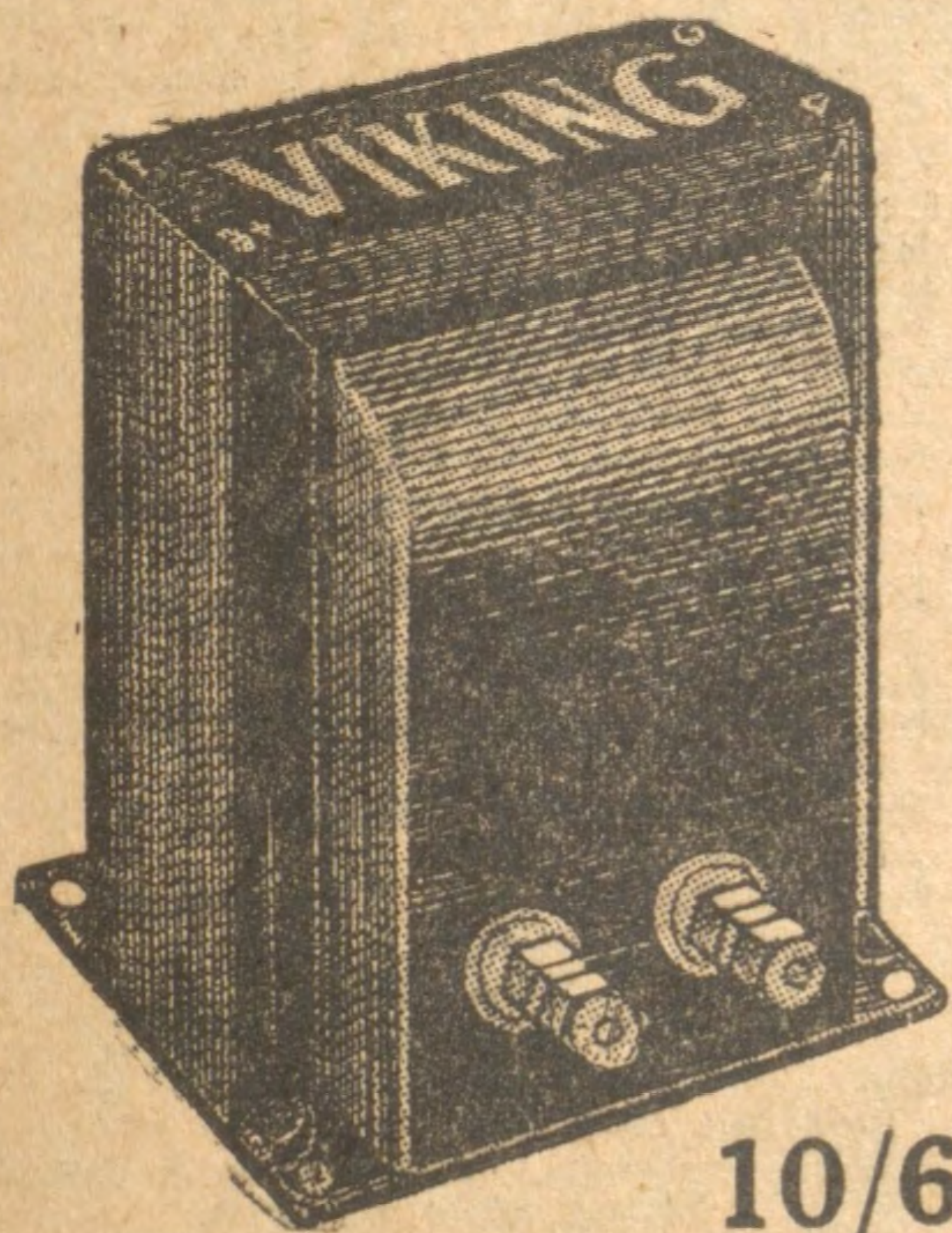
TUESDAY, 15th MAY, 1928.

EARLY MORNING SESSION.

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



Another VIKING arrives in Australia!

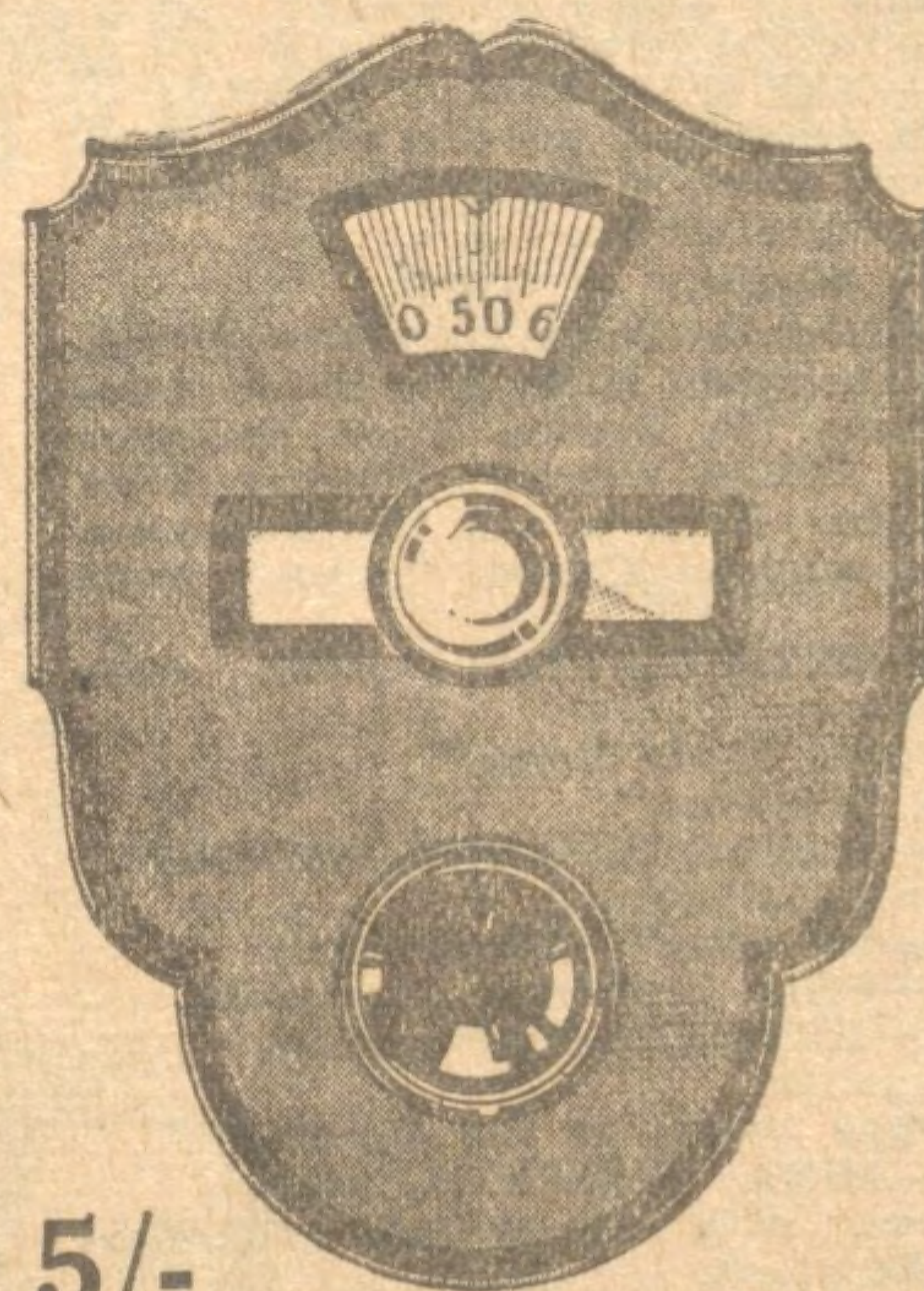


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To join that other famous "Viking"—the Audio Frequency Transformer—now comes the "Viking" Vernier Dial. Here it is on the right, and it's yours for 5/-. Handsome, isn't it? And gives you velvet control.

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

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Sydney

— Nothing Better! "

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

MORNING SESSION.

10 a.m.—Transmission from the Agricultural Showgrounds, Flemington. The Australasian Butter and Cheese Factory Managers and Secretaries' Association 35th Annual Conference. Address by Mr. P. J. Carroli, Commonwealth Superintendent of Dairy Exports. Some observations on matters connected with the dairying industry and reports from London.

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

TREACLE POSSET.

½ pint milk, 2 tablespoons treacle.

METHOD: (1) Put milk on in saucepan to boil. (2) When boiling stir in treacle and continue stirring till milk curdles. (3) Strain into a cup. (4) Serve the liquid. Note: This drink is good for a cold, and should be taken in bed.

ECONOMY IN PROVISION OF FOOD.

Buy the groceries, if possible, in large quantities, as they store well, and they can be bought more cheaply in this way. When tempted to buy half-cooked or fully-cooked groceries, remind yourself that someone has been paid for doing the cooking, and this cost falls on you. Jams, perhaps, can be bought more cheaply than they can be made at home, unless the fruit is very cheap or is grown at home.

11.5 a.m.—MISS E. NOBLE—Gas Cooking: "Biscuits for Afternoon Tea."

11.20 a.m.—Musical interlude.

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

11.40 a.m.—Musical interlude.

11.45 a.m.—MRS. EWAN LITTLEJOHN: Under the auspices of the Girl Guides' Association, will speak to the mothers of Guides and prospective Guides.

MIDDAY SESSION.

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

12.20 p.m.—METROPOLITAN FIRE BRIGADE BAND: March, "Sons of the Brave." Selection, "Patience."

12.30 p.m.—OLIVER PEACOCK, baritone: "Venetian Song" (Tosti).
 "An Evening Song" (Blumenthal).

12.37 p.m.—Stock Exchange information.

12.40 p.m.—METROPOLITAN FIRE BRIGADE BAND: Waltz, "The Waves of the Danube."

12.47 p.m.—MINA HESELEVA, soprano: "The Wren," with flute obligato by J. Barville (Benedict).
 "He Loves Me Not" (Mascagni).

12.54 p.m.—METROPOLITAN FIRE BRIGADE BAND: Dance Music.

1 p.m.—Melbourne Observatory Time Signal.

1.1 p.m.—OLIVER PEACOCK, baritone: "She is Far from the Land" (Lambert).
 "The Curtain Falls" (D'Hardelot).

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

1.15 p.m.—METROPOLITAN FIRE BRIGADE BAND: Selection, "The Yeoman of the Guard" (Sullivan).

1.25 p.m.—MINA HESELEVA, soprano: Request items.

1.32 p.m.—METROPOLITAN FIRE BRIGADE BAND: Novelty, "Alpine Echoes."

1.45 p.m.—Close down.

AFTERNOON SESSION.

2.15 p.m.—THE VAGABONDS:

"A Shady Tree" (Donaldson).

"So Long" (Miller).

"C'est Vous" (Silver).

2.24 p.m.—OLIVER PEACOCK, baritone:

"Little Town in County Down" (Sanders).

"The Little White House" (Hanley).

2.31 p.m.—THE VAGABONDS:

"Sweet Yvette" (Davis).

"Ramona" (Wayne).

"Persian Rosebud" (Handerson).

2.40 p.m.—JULIA RUSSELL, soprano:

"The Life of a Rose" (Liza Lehmann).

"Unfolding" (Liza Lehmann).

2.47 p.m.—THE VAGABONDS:

"Just Around the Corner" (Hayes).

"My Blue Heaven" (Donaldson).

"I'm Lonely Without You" (Warren).

2.56 p.m.—BERYL HOLT, contralto:

"A Summer Night" (Goring Thomas).

"The Fairy Laundry" (Montague Phillips).

3.3 p.m.—THE VAGABONDS:

"Just a Memory" (Davis).

"Shanghai Dream Man" (Davis).

"Bless Her Little Heart" (Deunicker).

3.12 p.m.—RUPERT HAZELL and ELSIE

Day:

"Harmonylarity."

3.25 p.m.—THE VAGABONDS:

"I've Got Somebody Now" (Williams).

"Indian Cradle Song" (Kahn).

"Cross Your Heart" (Pencler).

3.34 p.m.—T. JAMES LLOYD, Tenor:

"In a Little Spanish Town" (Mabel Wayne).

"Somewhere in the World" (Nat. S. Aver).

3.41 p.m.—THE VAGABONDS:

"What are you waiting for, Mary?"

(Donaldson).

"Where is My Meyer?" (Gilbert).

"Kiss and Make up" (Miller).

3.50 p.m.—OLIVER PEACOCK, Baritone:

"Pale Moon," with Orchestral accompaniment.

"The Lane to Ballybree" (Speakes).

3.57 p.m.—THE VAGABONDS:

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

Request items.

4.6 p.m.—JULIA RUSSELL, Soprano:

"Lovers in the Lane" (Liza Lehmann).

"Summer Storm" (Liza Lehmann).

4.13 p.m.—THE VAGABONDS:

"Me and My Shadow" (Jolson).

"Pleading" (Jones).

"Down in Old Havana Town" (Friend).

4.22 p.m.—BERYL HOLT, Contralto:

"The Carpet" (Wilfred Sanderson).

"The Star" (James Rogers).

4.29 p.m.—THE VAGABONDS:

"Russian Lullaby" (Berlin).

"Hide, Hide" (Huffer).

"Dance of the Fireflies" (Bloom).

4.38 p.m.—T. JAMES LLOYD, Tenor:

"After the Rain, the Sunshine" (George Beris).

"Diane, I'm in Heaven when I see you

Smile" (Ern Rupee).

4.45 p.m.—Special Weather Report from

Adelaide for the Mildura district.

4.46 p.m.—THE VAGABONDS:

"When Banana Skins are Falling" (Potter).

"When I'm with You" (Conely).

"Egypt" (Poller).

NEWS SESSION.

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

5.15 p.m.—Close down.

EVENING SESSION.

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

6.20 p.m.—"BOBBY BLUEGUM."

"Good people all of every sort,

Give ear unto our songs."

COME AND JOIN US AT THE STUDIO.

NEWS AND MARKET REPORTS.

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

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

7.12 p.m.—Stock Exchange information.

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

7.19 p.m.—River reports.

7.21 p.m.—Market reports by the Victorian Producers' Co-operative Co., Ltd.—Poultry, Grain, Hay, Straw, Jute, Dairy Produce,

Potatoes, Onions. Market reports of Fruit by the Victorian Fruiterers' Association. Retail prices. Wholesale Fruit Merchants' Association. Citrus Fruits.

NIGHT SESSION.

7.20 p.m.—Under the Auspices of the Town Planning Association, F. E. DIXON, F.I.C.A., will speak on:

"A Civic Centre for Melbourne."

7.45 p.m.—Under the Auspices of the University of Melbourne Extension Board, F. R. E. MAULDON, M.A., B.Sc., Senior Lecturer in Economics to the University, will speak on

"What is Wrong with the Coal Industry."

OUT OF THE PAST.

8 p.m.—Captain Cook Discovered Moreton Bay, May 13, 1770. Battle of Festubert (British Offensive, May 15, 1915).

8.1 p.m.—A. W. JACKSON will speak on: "Golf."

A MAKER OF HISTORY.

8.15 p.m.—To-day is the birthday of Sir Edwin Ray Lankester, F.R.S., Zoologist and Scientific Writer, born in London, in 1847. It is also the anniversary of the death of Daniel O'Connell (the "Liberator") in 1847. Birthday Greetings and Programme announcements.

CAMP-FIRE CONCERT COMPETITION.

8.16 p.m.—CONCERT PROGRAMME BY THE OTWAY FORESTER TROOP, GEELONG—CAMP FIRE COMPETITION.

Soldiers' Chorus Troop

Violin Solo Rover G. Stubbins

Troop Calls Troop

Song Rover W. Adcock

Community Chorus Troop

Humorous Recital P.L. Lance Wilson

Clarinet Solo Rover Ken Shugg

Chorus, "Home Boys" Troop

Violin Solo Scout Angus Crump

Recital P.L. W. McWilliams

Banjo Solo Rover Cecil Wilson

8.40 p.m.—Under the Auspices of the Girl Guide Association, Miss Moran will speak on "Brownies."

CANTATA.

8.50 p.m.—Transmission from Scots Church, Melbourne:

A SACRED CANTATA—"GOD THOU ART GREAT" (Louis Spohr), by The Scots' Church Choir (Organist and Conductor, MANSLEY GREER).

COLIN THOMPSON, Tenor.

MADAME GREGOR WOOD, Contralto.

ANNIE CADDELL, Soprano.

LESLIE PAULL, Bass.

No. 1.—Chorus, "God Thou art Great."

No. 2.—Solo and Chorus, "Thou earth, waft sweet incense o'er thy plains."

No. 3.—Recitative, "Be dumb, ye sinners, the world is God's and He is loved." (Contralto and Tenor).

No. 4.—Duet, "Children, pray this love to cherish."

No. 5.—Quartette: "Walk ye, walk yet, hundred thousands."

No. 6.—Chorus, "God Thou art great! so say the Heavens."

"GALLIA"

MOTET, by C. H. GOUNOD.

No. 1.—Solitary lieth the city, she that was full of people.

No. 2.—Cantilene. Zion's ways do languish.

FROM THE STUDIO.

9.30 p.m.—THE GYPSY PLAYERS:

Spanish Gypsy Dance (Moyrey).

9.40 p.m.—RUPERT HAZEL and ELSIE

DAY:

"Harmonylarity."

9.53 p.m.—THE GYPSY PLAYERS:

Dance Suite (Wright).

10 p.m.—MINA HESELEVA, Soprano:

Romance, "Life for the Czar" (Glinka).

"Bolero" (Verdi).

10.7 p.m.—HELGA BRENNICKE, Cello:

"Abendlied" (Schumann).

"Lullaby" (Cyril Scott).

10.12 p.m.—THE GYPSY PLAYERS:

"Dances from the Palace of Puck" (Leyland).

10.20 p.m.—MINA HESELEVA, Soprano:

"I am Titania—Milgnon" (Thomas).

Selected.

NEWS SESSION.

10.27 p.m.—THE SYDNEY PLAYERS: Selection, "Nelly elly" (Cohan).

RADIO

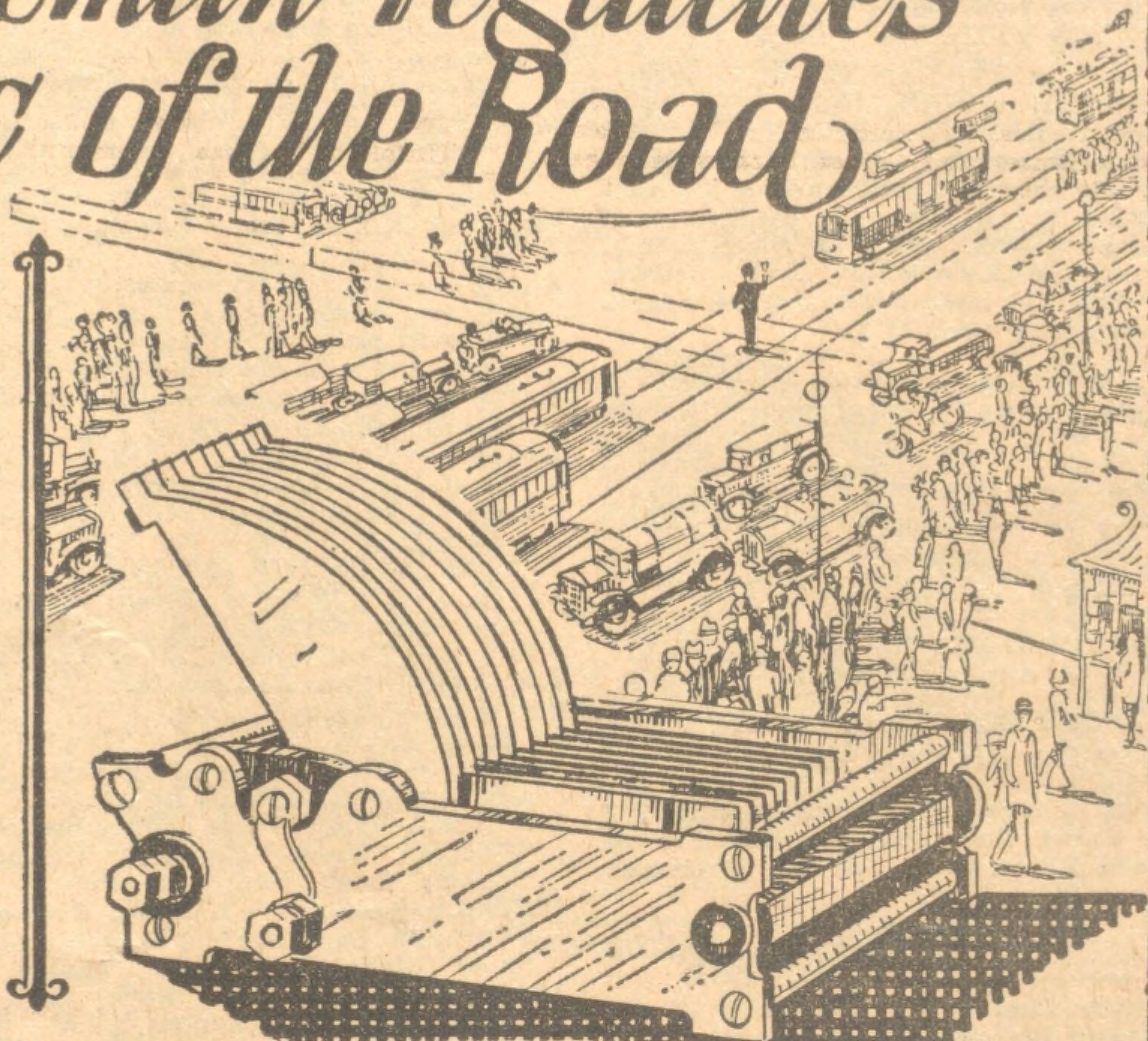
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and

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

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

"Let it never be said that your carelessness on the road caused another's injury."
SEE VICTORIA FIRST.

LET'S DANCE.

10.47 p.m.—THE VAGABONDS.

11 p.m.—OUR GREAT THOUGHT:

"Most arts require long study and application; but the most useful art of all, that of pleasing, requires only the desire. It is to be presumed that a man of commonsense, who does not desire to please, desires nothing at all since, he must know that he cannot obtain anything without it."

—Chesterfield.

11.1 p.m.—THE VAGABONDS.

11.40 p.m.—GOD SAVE THE KING.

3AR, MELBOURNE

TUESDAY, 15th MAY, 1928.

MORNING NEWS SESSION.

11 a.m. to 12 noon.

MIDDAY CONCERT SESSION.

12.1 p.m. to 2 p.m.

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

MATINEE SESSION.

ORCHESTRAL DANCE CONCERT.

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

2 p.m.—Ayaz Dansonians:

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

2.30 p.m.—Melbourne Concert Orchestra: Suite of Five Dances, "Carnival" (Montague Ring).

"The Eternal Spring" (Rolt).

2.45 p.m.—Miss Jean Lewis, contralto:

"To none will I my love" (Strauss).

"In Summer Fields" (Brahms).

2.53 p.m.—Melbourne Concert Orchestra:

"Grieg Fantasie" (Urbach).

3 p.m.—Mr. Ronald Brearley, 'cello:

"Liebeslied" (Kreisler).

3.12 p.m.—Ayaz Dansonians.

3.30 p.m.—Interval announcements.

3.35 p.m.—Mademoiselle Jeunesse: Talk on Timely Topics of Interest to our Lady Listeners.

3.45 p.m.—Miss Jean Lewis, contralto:

"Malvern Hills in Spring" (Clarke).

"Casend Hill" (Clarke).

3.52 p.m.—Melbourne Concert Orchestra:

"Serenata d'Amalfi" (Becce).

"Dainty Damsel" (Baron).

4 p.m.—G.P.O. Clock says "Four."

4.1 p.m.—Second weather forecast.

4.3 p.m.—Mr. A. J. Sanders, baritone:

"The Aviator" (Flynn).

"The Company Sergeant Major" (Sander-son).

4.11 p.m.—Melbourne Concert Orchestra:

"Capriccio Italiano" (Tchaikowsky).

"Orientale" (Cui).

4.30 p.m.—Mr. A. J. Sanders, baritone:

"Pearl of Sweet Ceylon" (Monckton).

"The Old Fashioned Garden of Love" (Thompson).

4.38 p.m.—Ayaz Dansonians.

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

5 p.m.—G.P.O. Clock says "Five."

"God Save the King."

CHILDREN'S SESSION.

6.30 p.m.—Brer Rabbit's entertainment. Birthday Greetings and an hour of music, song and story.

EVENING SESSION.

ORCHESTRAL CONCERT.

7.20 p.m.—Dr. Floyd, Organist and Choirmaster of St. Paul's Cathedral Melbourne, will talk on "The Art of Listening."

7.30 p.m.—A broadminded and up-to-date talk by "Friar Tuck": "Citizenship."

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

7.50 p.m.—Macnamara's Stock Report.

8 p.m.—G.P.O. Clock says "Eight."

8.1 p.m.—Melbourne Concert Orchestra:

Selection, "Sunny" (Kern).

"Le Baiser D'Eunice" (Jean Nougues).

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

"Must I go bound" ("Derry Air").

"Three Fishers Went Sailing" (John Hullah).

8.22 p.m.—Ayaz Dansonians.

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

"L'Heure Exquise" (Poldowski).

"Romance" (Claude Debussy).

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

"Melodie" (Respighi).

8.50 p.m.—Announcements.

9.2 p.m.—Melbourne Concert Orchestra:

Suite, "Cyrano de Bergerac" (Frederick Resse).

"Serenade Italien" (Schebek).

9.17 p.m.—Mr. Richard Chugg, flute:

"Second Sonata" (Platti).

9.30 p.m.—"Harlequin": Sport results.

9.38 p.m.—Ayaz Dansonians.

9.50 p.m.—Announcements.

10 p.m.—G.P.O. Clock says "Ten."

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

10.3 p.m.—Mr. William Storr, baritone:

"Prologue" from "Pagliacci" (Leoncavallo).

"Tommy Lad" (Margetson).

10.11 p.m.—Melbourne Concert Orchestra:

"Andante Cantabile" (Tchaikowsky).

"Four Cinderella Dances" (Lohr).

10.28 p.m.—Mr. William Storr, baritone:

"The Bandolero" (Stuart).

"Fill a Glass with Golden Wine" (Quilter).

10.36 p.m.—Ayaz Dansonians.

10.52 p.m.—"Age" News Bulletin, exclusive to 3AR.

10.53 p.m.—Final weather forecast.

10.59 p.m.—Our Australian Good-night Quote is taken from the poem, "An Australian Symphony," by George Essex Evans.

11 p.m.—G.P.O. Clock says "Eleven."

"God Save the King."

4QG, BRISBANE

TUESDAY, 15th MAY, 1928.

MORNING SESSION.

10.30 a.m. to 11.30 a.m.

MIDDAY SESSION.

1.0 p.m.—Market Reports; Weather Information; "The Daily Mail" and "The Daily Standard" News.

1.30 p.m.—From the Paris Cafe: Lunch Hour Music.

1.58 p.m.—From the Observatory: 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 by the Studio Orchestra, including:—

3.32 p.m.—Overture, "Nebuchadrezzar" (Verdi).

Soprano solo, Selected, Miss Rene Marsden.

3.39 p.m.—Valse, "Wedding of the Winds" (Hall).

3.40 p.m.—Gavotte, "Milady Dainty" (Frazer).

3.52 p.m.—Valse Caprice, "On a Woodland Glade" (Ray).

Soprano solo, Selected, Miss Rene Marsden.

3.53 p.m.—Melodie, "Songs d'Amour" (Leigh).

4.5 p.m.—Characteristic, "Russian Country Life" (Akst).

4.11 p.m.—March, "His Majesty the King" (Losey).

4.15 p.m.—"The Telegraph" News; 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.

6.16 p.m.—From the Paris Cafe: Dinner Music.

6.28 p.m.—From the Studio: Announcements.

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

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, "A Talk on Photography," Mr. F. L. South (Manager, Kodak, Ltd.).

NIGHT SESSION.

"THE NOCTURNIANS."

A programme of music by "The Nocturnians" (conductor, Mr. H. Gilroy).

8.0 p.m.—From the Studio:

National Anthem.

Topical Chorus.

8.3 p.m.—A Thought for To-night:

"Lastly."

Will H. Lister.

8.5 p.m.—Chorus:

"Erin the Tear" (Forsyth).

The Nocturnians.

8.9 p.m.—Tenor Solo:

"She is Far From the Land" (Lambert).

Mr. H. Gilroy.

8.13 p.m.—Baritone solo:

"The Two Grenadiers" (Schumann).

Mr. E. Baines.

8.18 p.m.—Bass solo:

"Neptune's Song" (Loder).

Mr. T. Ryan.

8.22 p.m.—Tenor solo:

"An Old-Fashioned Town" (Squire).

Mr. J. Quinlan.

8.26 p.m.—Chorus:

"Down in the Depths" (Linders).

The Nocturnians.

8.31 p.m.—Duet, "Until" (Sanders).

Messrs. A. Smith and R. Daniels.

8.35 p.m.—Baritone solo:

"Phyllida" (Fisher).

Mr. B. Cloirec.

8.39 p.m.—Tenor solo:

"My Dreams" (Tosti).

Mr. Arthur Smith.

8.45 p.m.—Bass solo:

"Muleteer of Malaga" (Trotter).

Mr. D. Felsman.

8.50 p.m.—Tenor solo:

"Mifanwy" (Forster).

Mr. R. Daniels.

8.54 p.m.—Duet:

"Your Eyes Have Told Me So" (Hardy).

Messrs. H. Gilroy and B. Cloirec.

8.58 p.m.—Tenor solo:

"Parted" (Tosti).

Mr. J. Quinlan.

9.0 p.m.—Metropolitan Forecast.

9.2 p.m.—Chorus:

"Married and Single" (Werner).

The Nocturnians.

9.5 p.m.—Baritone solo:

"The King's Minstrel" (Pinsuti).

Mr. R. Toshack.

9.10 p.m.—Bass solo:

"Out On the Deep" (Lohr).

Mr. T. Ryan.

9.15 p.m.—Metropolitan Forecast; Tenor solo:

"I Hear a Thrush at Eve" (Cadman).

Mr. R. Daniels.

9.19 p.m.—Duet:

"Flow On Thou Shining River" (Stevenson).

Messrs. B. Cloirec and T. Ryan.

9.23 p.m.—Baritone solo:

"The English Rose" (German).

Mr. E. Baines.

9.28 p.m.—Tenor solo:

"Fairy Tales of Ireland" (Coates).

Mr. H. Gilroy.

9.32 p.m.—Chorus:

"Drink to Me Only With Thine Eyes" (Robertson).

The Nocturnians.

9.36 p.m.—Baritone solo:

"My World" (Jordan).

Mr. B. Cloirec.

9.40 p.m.—Tenor solo:

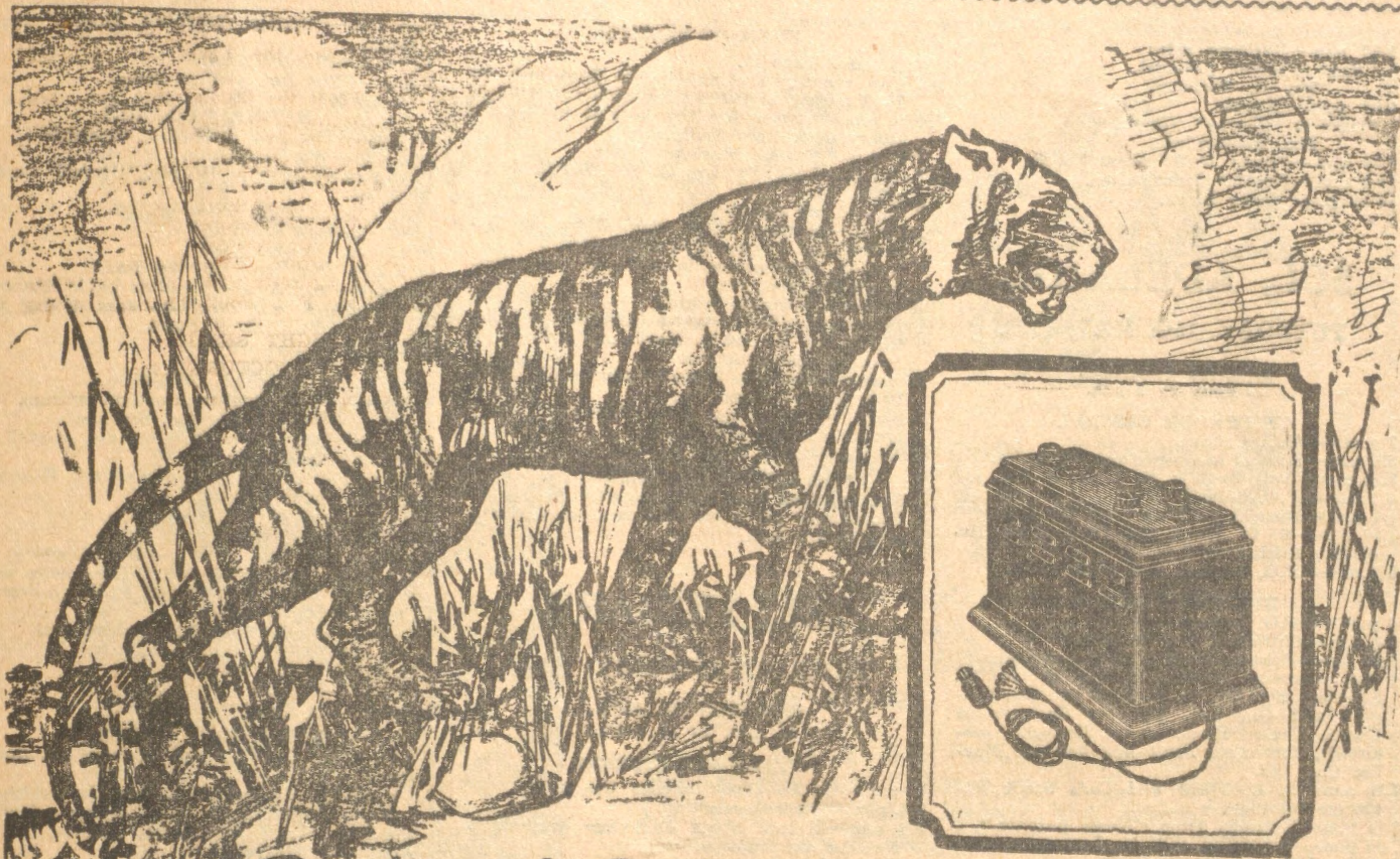
"Mountain Lovers" (Squire).

Mr. A. Smith.

9.45 p.m.—Bass solo:

"Rolling Down to Rio" (German).

Mr. D. Felsman.



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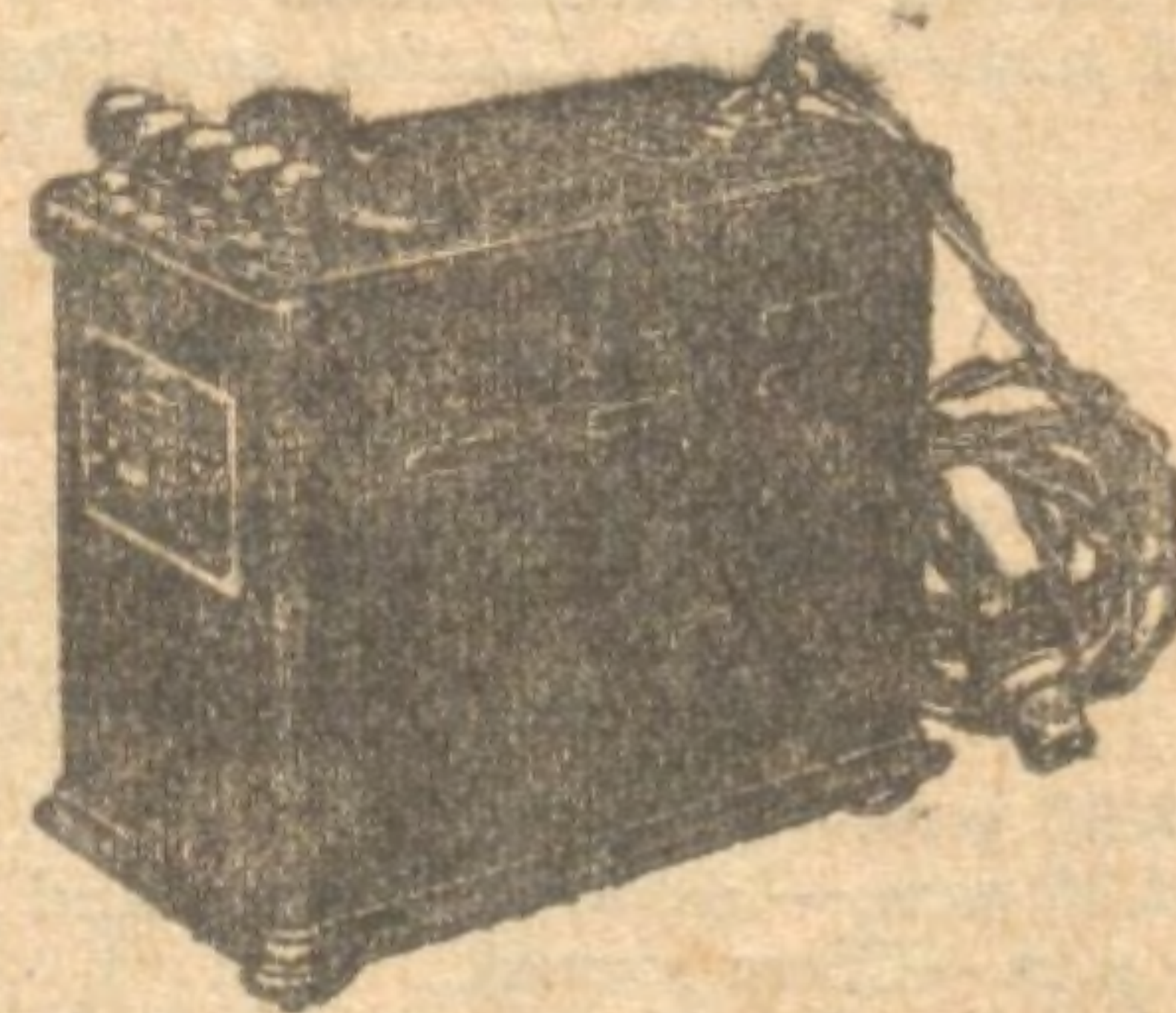
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9.50 p.m.—Baritone solo:
"Mate O'Mine" (Elliott).
Mr. R. Toshack.
9.54 p.m.—Chorus:
"Soldiers' Chorus" (Gounod).
The Nocturnians.
9.59 p.m.—"Daily Mail" News Service.
10.3 p.m.—Weather Information.
10.10 p.m.—Close Down.

5CL, ADELAIDE.

TUESDAY, 15th MAY, 1928.

MIDDAY SESSION.
12 noon to 2 p.m.

AFTERNOON SESSION.

8 p.m.—G.P.O. Chimes.
8.1 p.m.—Musical numbers from the studio.
8.45 p.m.—Talk by Rev. G. E. Hale, B.A.
4 p.m.—G.P.O. Chimes.
4.1 p.m.—Musical numbers from the studio.
4.57 p.m.—S. C. Ward and Co.'s Stock Exchange Intelligence.
5 p.m.—G.P.O. Chimes and close down.

EVENING SESSION.

6 p.m.—G.P.O. Chimes.
6.1 p.m.—Children's entertainment.
6.30 p.m.—Dinner Music from the studio.
7 p.m.—General Market reports by A. W. Sandford and Co., A. E. Hall and Co., Dalgety and Co., S.A. Farmers Co-operative Union, Taylor Bros., Retail Grocers Association, Interstate Fruit and Produce Market Co., Ltd.
7.10 p.m.—S. C. Ward and Co.'s Stock Exchange Intelligence.
7.15 p.m.—Extracts from "News Bulletin."
7.30 p.m.—Gardening talk by Lasscocks Nurseries, Lockleys.
7.42 p.m.—"Windbag's Sporting Service."
7.48 p.m.—Station Announcements.
8 p.m.—G.P.O. Chimes.
8.1 p.m.—S.A. Railways Band.
8.11 p.m.—Mrs. Hubert James, contralto, and Broadland Rooke, tenor, vocal duet.
8.18 p.m.—Organ recital from Archer Street Methodist Church.
8.43 p.m.—S.A. Railways Band.
8.55 p.m.—Marcella Berardi, soprano.
9.1 p.m.—Meteorological information, weather forecast.
9.2 p.m.—Dalgety's wheat report.
9.3 p.m.—International News.
9.8 p.m.—S.A. Railways Band.
9.13 p.m.—Mostyn Skinner, baritone.
9.20 p.m.—Marcelli Berardi, soprano.
9.24 p.m.—S.A. Railways Band.
9.30 p.m.—Vocal Duet, Mrs. Hubert James, contralto, and Broadland Rooke, tenor.
9.34 p.m.—S.A. Railways Band.
9.44 p.m.—Mostyn Skinner, baritone.
9.48 p.m.—S.A. Railways Band.
9.55 p.m.—Mrs. Hubert James, contralto.
10.1 p.m.—"Advertiser" news service.
10.4 p.m.—"Windbag's" Sporting Service.
10.15 p.m.—Broadland Rooke, tenor.
10.18 p.m.—Relay from Glenelg, The Maison Dance Band.
10.55 p.m.—To-morrow's programme, and station announcements.
11 p.m.—G.P.O. Chimes and National Anthem.

6WF, PERTH.

TUESDAY, 15th MAY, 1928.

MIDDAY SESSION.

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

AFTERNOON SESSION.

3.30 p.m.—Tune in.
3.35 p.m.—Organ music, vocal and instrumental numbers from the Studio.
Pianoforte selections by Miss Evelyn Willis, A.R.C.M.
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.—Orchestral Night.
Concert by 6WF's Station Orchestra, conducted by Mr. Ronald E. Moyle, A.T.C.L.
Vocal assisting 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, 15th MAY, 1928.

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

AFTERNOON SESSION.

3 p.m.—G.P.O. Clock chimes the hour.
3.1 p.m.—Musical selection.
3.5 p.m.—Hobart Stock Exchange quotations.
Weather information.
Items of interest: Announcements.
3.15 p.m.—Selections by 7ZL Studio Trio:
Overture, "Calipp di Bagdad" (Bigge).
Valse, "First Love" (Nuchiels).
Selection, "Tannhauser" (Wagner).
Clarinet solo, Selected, Mr. A. Young.
Incidental music, "Monsieur Beaucaire" (Rosse).
"Serenade Melodia" (Rosse).
4.15 p.m.—Educational talk.
4.30 p.m.—Close down.

EARLY EVENING SESSION.

6.30 p.m.—Uncle David's half-hour.
7 p.m.—Uncle Hector's half-hour.

NIGHT SESSION.

7.30 p.m.—Musical selection.
7.35 p.m.—Literary Lapses and Library Lists by Mr. W. E. Fuller.
7.50 p.m.—"Mercury" special Tasmanian news service.
Railway auction produce sales.
Weather forecasts.
Hobart Stock Exchange quotations.
8 p.m.—G.P.O. Clock chimes the hour.
8.1 p.m.—Broadcast by direct wire from Prince of Wales' Theatre, Hobart:
Selections by Prince of Wales' Orchestra.
Conductor, Mr. E. J. McCann.
9.50 p.m.—"Mercury" special Interstate news service.
Tasmanian District weather reports from Australian Capital cities.
Station announcements.
Wednesday's programme.
10 p.m.—Close down.

Wednesday, May 16 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 p.m.—Wool sales, breadstuffs markets, interstate markets, produce markets.

7.45 a.m.—"Sydney Morning Herald" summary.
7.50 a.m.—Studio Music.
8 a.m.—"Big Ben." Close down.

MORNING SESSION.

10 a.m.—"Big Ben" and announcements.
10.5 a.m.—Studio Music.
10.15 a.m.—"Sydney Morning Herald" news service.
10.30 a.m.—Studio Music.
10.35 a.m.—A Reading.
10.45 a.m.—Studio Music.
11 a.m.—"Big Ben." Studio Music.
11.5 a.m.—A.P.A. and Reuter's Cable Services.
11.15 a.m.—A talk on home cooking and recipes by Miss Ruth Furst.
11.30 a.m.—Close down.

MIDDAY SESSION.

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

AFTERNOON SESSION.

3 p.m.—"Big Ben" and programme announcements.
3.5 p.m.—From the Oval Sydney University:
A description of the Athletic Events during the Interstate Championship Meeting of the Australian Universities.
The following States will compete:
Queensland.
New South Wales.
Victoria.
South Australia.
Western Australia.
During the intervals at the University Oval the following musical items will be given from the Studio.
Florence Grant, soprano:
(a) "The lark now leaves his watery nest" (Parker).
(b) "Cradle Song" (Kreisler).
Joice Gillespie, soprano:
Phillipa Alston, contralto.
A recital of Columbia records.
4.45 p.m.—From The Studio. Stock Exchange, third call.
4.47 p.m.—Resume of the afternoon's events at the Sydney University Oval.
4.50 p.m.—Studio Music.
5 p.m.—"Big Ben." Close down.

EARLY EVENING SESSION.

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

NIGHT SESSION.

SHAKESPEARE AND SONG.

7.40 p.m.—Programme announcements.
7.45 p.m.—G. V. Portus, on behalf of the Workers' Educational Association, will give a talk on "History."
8 p.m.—From the Capitol Theatre, Sydney:
The Capitol Theatre Orchestra, under the baton of Ted Henkel:
Items on the "Wurlitzer" Organ, played by Fred Sholl.
8.25 p.m.—From the Studio:
H. W. Varna and Company, assisted by Bryson Taylor (Tenor).

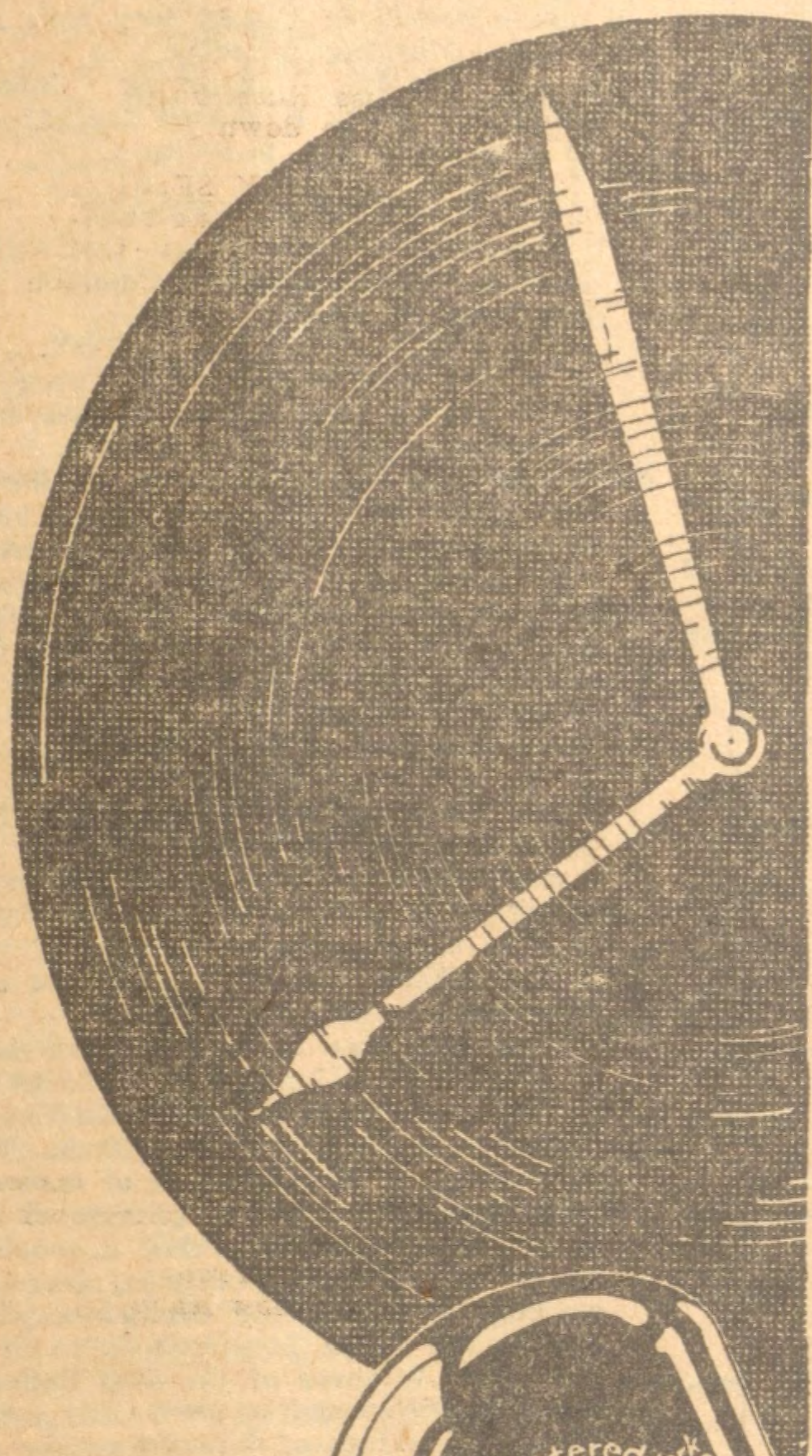
SHAKESPERIAN SCENE.

"TWELFTH NIGHT."

Scenes: Duke Orsino's Palace.

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

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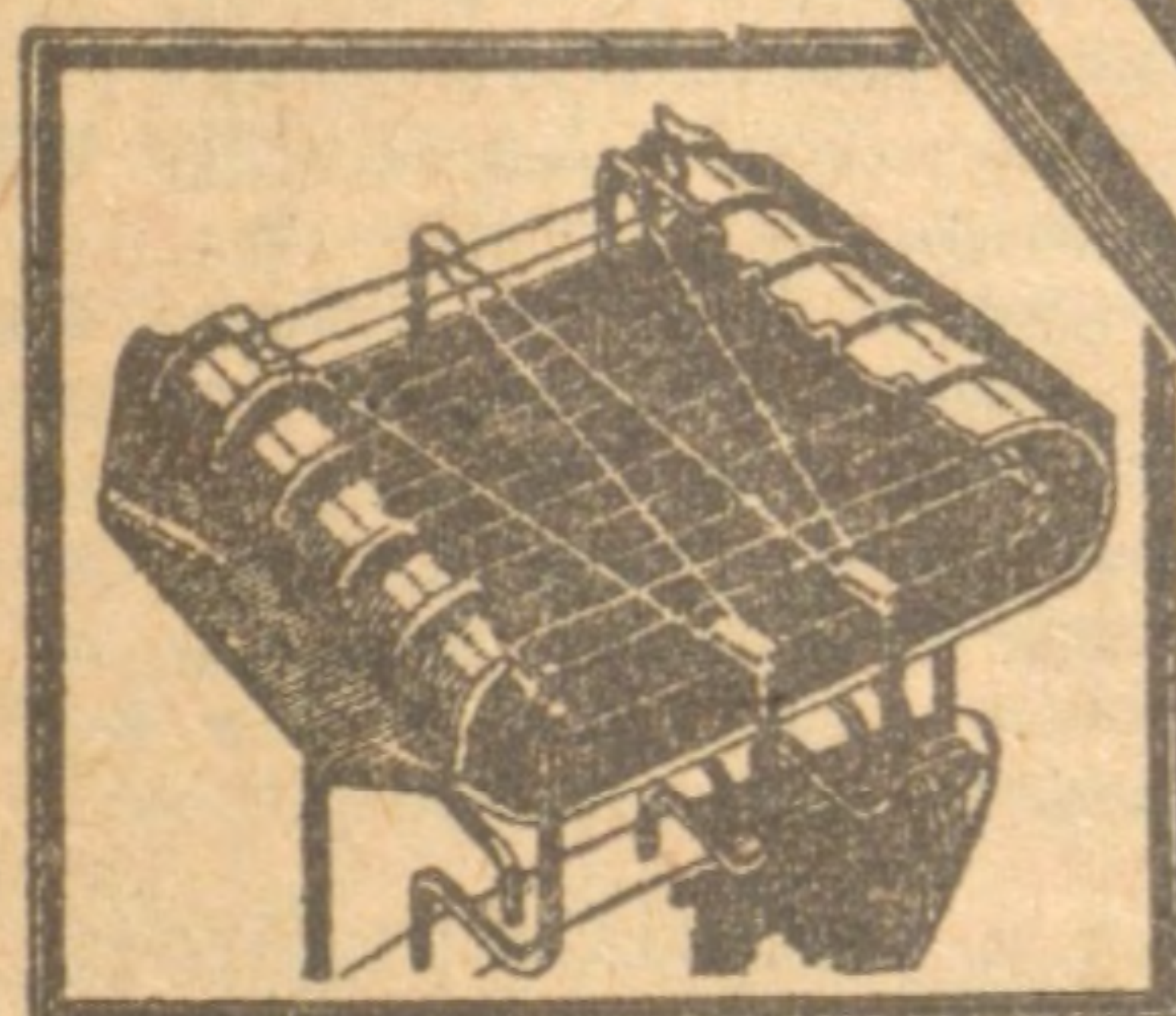
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3LO, MELBOURNE.

WEDNESDAY, 16th MAY, 1928.

EARLY MORNING SESSION.

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

MORNING SESSION.

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

ROUGH PUFF PASTRY.

$\frac{1}{2}$ lb. flour, pinch salt, 2oz. butter, $\frac{3}{4}$ gill water, $\frac{1}{2}$ teaspoon baking powder, 2oz. lard, 1 yolk egg, squeeze lemon juice.

METHOD.—(1) Sift flour, baking powder and salt. (2) Break in lard and butter in small pieces. (3) Stir round lightly. (4) Add mixed yolk of egg and water and lemon juice. (5) Make it into rather soft paste. (6) Turn on to floured board, knead slightly. (7) Roll into a thin sheet, fold in three. (8) Then fold in two and roll to shape required. (9) Bake in hot oven 20 to 30 minutes.

ECONOMY IN PROVISION OF FOOD.

Utilising Left-overs.

Stale bread may be dried in oven and rolled or grated for crumbs, for frying, or used in boiled or baked bread-puddings.

Stale cheese may be grated and used in savories.

Sour milk may be used to make scones.

WOULD YOU LIKE A HOLIDAY?

SEE BUFFALO AT OUR EXPENSE.

Mount Buffalo, National Park, 200 miles north-west of Melbourne, is at once an awe-inspiring citadel and a glimpse of wonderland. Almost to the skies, it would seem, tower the granite precipices, scarred and seamed in an age-long conflict with the elements and riven here and there by yawning cliffs. Winners of the 3LO Buffalo Holiday Competition will be personally escorted to the many points of interest on the Plateau during the week's holiday which will be provided them by 3LO, to commence on June 1.

- 11.5 a.m.—CAPTAIN DONALD MacLEAN: "Famous Women of History."
 11.20 a.m.—Musical interlude.
 11.25 a.m.—MRS. M. CALLAWAY MAHOOD: "Wall Treatment," Part II.
 11.40 a.m.—Musical interlude.
 11.45 p.m.—Mrs. CLARENCE WEBER, the Physical Culture Expert: "Become a Physical Culture Family," Part 3. Faults that are easily corrected. Posture and deportment in the home. Planning out—work and play. A common interest—means of drawing a family together. Let your motto be: "A sound mind in a sound body."

MIDDAY SESSION.

- 12 noon.—Melbourne Observatory time signal.
 12.1 p.m.—Australian Mines and Metals Association from the London Stock Exchange this day. British official wireless news from Rugby. Reuter's and the Australian Press Association cables. "Argus" news service.
 12.20 p.m.—THE GYPSY PLAYERS: "Rural Scenes" (Mott).
 12.30 p.m.—FREDA NORTHCOTE, contralto: "The Little Old Garden" (Hewitt).
 "Sing, Happy Birds" (Liddle).
 12.37 p.m.—Stock Exchange information.
 12.40 p.m.—THE GYPSY QUARTETTE: Lavender and Lace (Fred Hall).
 1. The Flirtation.
 2. Dainty Dolly Dimples.
 3. My Ladye Fayre.
 4. Birds at Dawn.
 5. Tre Tryst.

Characters:

Duke Orsino H. W. VARNA
 Curio W. HUME
 Feste the Jester BRYSON TAYLOR
 Viola (as Cesario) MEG SERVICE
 Bryson Taylor (Tenor), will sing:
 "Come Away Death" (Quilter).
 Followed by
 "THE KITCHEN SCENE."

Characters: ...

Malvolio H. W. VARNA
 Sir Toby Bileh H. J. SALIER
 Sir Andrew Aguecheek W. HUME
 Maria FELIX CLARK
 Feste the Jester BRYSON TAYLOR
 Bryson Taylor (tenor), will sing:
 (a) "O Mistress Mine" (Lewey).
 (b) "Heigh, Ho, the Wind and the Rein" (Lewey).

8.45 p.m.—From the Capitol Theatre, Sydney: The Capitol Theatre Orchestra and Stage Band, conducted by Ted Henkel.

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

9.11 p.m.—Madame Vera Tasma, Soprano.

9.20 p.m.—R. A. BARTLEMAN, Baritone.

9.30 p.m.—From the Studio:

H. W. Varna and Company, assisted by Bryson Taylor, Tenor.

SHAKESPERIAN SCENE.

"AS YOU LIKE IT."

Act II.

"The Forest of Arden."

Characters:

Duke Senior Noel Robertson
 Melancholy Jacques H. W. Varna
 Old Adam W. Hume
 Orlando H. J. Salier
 Amiens Bryson Taylor
 Bryson Taylor (tenor), will sing:
 (a) "Under the Greenwood Tree" (Quilter).
 (b) "Blow, Blow, Thou Winter Wind" (Dr. Arne).

9.50 p.m.—From the Studio:

Madame Vera Tasma, Soprano.

10.0 p.m.—Dance Music

10.13 p.m.—R. A. Bartleman, Baritone.

10.20 p.m.—Len Maurice, Popular dance items.

10.30 p.m.—Late weather forecast.

10.31 p.m.—Dance Session: Conducted by Len Maurice.

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

11.0 p.m.—"Big Ben." National Anthem.

2BL, SYDNEY

WEDNESDAY, 16th MAY, 1928.

EARLY MORNING SESSION.

8 a.m. to 9 a.m.

MORNING SESSION.

- 11 a.m.—G.P.O. clock and chimes.
 Talk on "Walking Tours," by Miss Varley, Broadcasters' Women's sports authority.
 Welfare talk by Mrs. Jordan.

AFTERNOON SESSION.

- Racing information broadcast immediately after each race, by courtesy of the "Sun."
 12 noon.—G.P.O. clock and chimes.
 Special ocean forecast and weather report.
 12.3 p.m.—Musical programme from the Studio.
 12.12 p.m.—Information. Mails, shipping, and port directory.
 12.15 p.m.—Boats in call by wireless.
 12.17 p.m.—Fruit market report.
 12.19 p.m.—Vegetable market report.
 12.21 p.m.—London metal market report.
 12.23 p.m.—Dairy and farm produce market report.
 12.26 p.m.—Fish market report.
 12.28 p.m.—Rabbit market report.
 12.30 p.m.—H.M.V. Gramophone Recital.
 1 p.m.—United Intercourse Service. Anniversary Service, broadcast from the basement of the Sydney Town Hall. Speakers: Archbishop Wright and Dr. Poole, of London.
 2 p.m.—G.P.O. clock and chimes.
 Musical programme from the Studio.
 2.20 p.m.—News from the "Sun."
 2.30 p.m.—Musical programme from the Studio.
 2.40 p.m.—News from the "Sun."

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

3 p.m.—G.P.O. clock and chimes.

News from the "Sun."

3.10 p.m.—Pianoforte recital from the Studio.

3.20 p.m.—News from the "Sun."

3.30 p.m.—Racing resume.

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

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

4 p.m.—G.P.O. clock and chimes.

Exercises on health by Mr. Walter E. Withrow.

4.15 p.m.—News session.

4.30 p.m.—Dungowan Dance Band.

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

4.50 p.m.—Racing resume.

5 p.m.—G.P.O. clock and chimes

EARLY EVENING SESSION.

5.45 p.m.—G.P.O. clock and chimes.

Children's session.

6.30 p.m.—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"

7.40 p.m.—Talk on "Astrology," by Miss Charlton-Smith.

8 p.m.—G.P.O. clock and chimes.

An hour's programme arranged by Messrs. E. F. Wilks and Co., Limited.

9 p.m.—Sketch by Norman Barrington and partner.

9.10 p.m.—Miss Beryl Scott, songs at the piano.

9.17 p.m.—Silver Quartette.

9.24 p.m.—Sketch by Norman Barrington and partner.

9.34 p.m.—Mr. Googs Hanlon, novelty pianist.

9.41 p.m.—Silver Quartette.

9.48 p.m.—Miss Beryl Scott.

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

10 p.m.—Mr. Googs Hanlon.

10.7 p.m.—Broadcasters' all sports expert will talk on general sporting.

10.22 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.

2 UW, SYDNEY

WEDNESDAY, 16th MAY, 1928.

EVENING SESSION.

7 p.m.—Studio items.

7.10 p.m.—Where to go session.

7.15 p.m.—Dinner music.

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

7.52 p.m.—Studio item.

7.55 p.m.—Miss G. Tyerman, pianoforte solo. Selected.

8 p.m.—News items.

8.10 p.m.—Mr. Lovedoe, banjo solo.. Selected.

8.15 p.m.—Studio item.

8.18 p.m.—Miss Doris Fitzmaurice, elocutionist. Selected.

8.25 p.m.—Studio item.

8.28 p.m.—Weather forecast.

8.32 p.m.—Miss G. Tyerman, pianoforte solo. Selected.

8.38 p.m.—Studio item.

8.42 p.m.—Mr. Lovedoe, banjo solo Selected.

8.48 p.m.—Studio selections.

9 pm.—Talk by Mr. J. M. Prentice—the original "Uncle Jack" of 2BL.

9.20 p.m.—Dance Music and request numbers.

- 12.50 p.m.—THE GYPSY PLAYERS:
"Henry VIII. Suite of Music in Old English Style" (Foulds).
- 1 p.m.—Melbourne Observatory time signal.
- 1.1 p.m.—FREDA NORTHCOTE:
"A Pearl for Every Tear" (Liddle).
"The Way Home" (Liddle).
- 1.8 p.m.—Meteorological information. Weather forecast, Victoria, New South Wales, South Australia, and Tasmania. Ocean forecasts. River reports.
- 1.15 p.m.—THE GYPSY PLAYERS:
"Henry VIII. Suite—Part II" (Foulds).
- 1.28 p.m.—AGNES FORTUNE:
"Romance" (Rubenstein).
- 1.30 p.m.—Speeches from the Rotary Club Luncheon, transmitted from the Town Hall, Melbourne.
- 2 p.m.—Description of Hurdle Race, 2 miles, from BENDIGO RACECOURSE, by Eric Welch.
- 2.5 p.m.—Close down.

AFTERNOON SESSION.

- 2.15 p.m.—THE GYPSY PLAYERS:
"Quartet" (Mozart).
- 2.25 p.m.—MINA HESELEVA, soprano:
"Angels Guard Thee," with violin obligato, by Bertha Jorgensen (Godard).
Aria, "Les Huguenots" (Meyerbeer).
- 2.32 p.m.—THE GYPSY PLAYERS:
"Slow movements—Death and the Maiden" (Schubert).
- 2.36 p.m.—Description of Bendigo Plate, 6 furlongs, BENDIGO RACES, by Eric Welch.
- 2.45 p.m.—MINA HESELEVA, soprano:
"L'Ete" (Chaminade).
"The Soldier's Wife" (Rachmaninoff).
- 2.53 p.m.—THE STATION ORCHESTRA:
"Scheherazade" (Rimsky-Korsakoff).
- 3 p.m.—Melbourne Observatory time signal.

HARMONY BOUND.

- 3.1 p.m.—RUPERT HAZELL AND ELSIE DAY:
"Harmonylarity."
- 3.13 p.m.—Description of President's Handicap, 1¼ miles, BENDIGO RACES, by Eric Welch.
- 3.20 p.m.—THE STATION ORCHESTRA:
Selection, "The Maid of the Mountains" (Simson).
- 3.30 p.m.—OLIVER PEACOCK, baritone:
"West of the Great Divide" (Ball).
"Bianca."
- 3.37 p.m.—THE STATION ORCHESTRA:
"In a Monastery Garden" (Ketelbey).
- 3.43 p.m.—Description of Novice Handicap, 5½ furlongs, BENDIGO RACES, by Eric Welch.
- 3.50 p.m.—ELLA RIDDELL, contralto:
"The Bonnie Banks o' Loch Lomond" (Smith).
"Come ye by Athol!" (Macfarren).
- 3.57 p.m.—THE STATION ORCHESTRA:
Selection, "The Student Prince" (Romberg).
- 4.5 p.m.—ALMA HORLOCK, soprano:
"Mid the hush of the corn," with flute obligato, by J. Barrille.
"Every flower that blows."
- 4.12 p.m.—Description of Two-year-old Handicap, 5 furlongs, BENDIGO RACES, by Eric Welch.
- 4.20 p.m.—THE STATION ORCHESTRA:
"Valse Caprice" (Rubenstein).
"The Song is ended but the Melody Lingers On" (Berlin).
- 4.30 p.m.—ELLA RIDDELL, contralto:
"My Nanie's Awa."
"The Star o' Rabbie Burns."
- 4.37 p.m.—THE STATION ORCHESTRA:
"Minuet" (Paderewski).
- 4.42 p.m.—Special weather report from Adelaide for Mildura district.
- 4.43 p.m.—Description of Homebush Handicap, 7 furlongs, BENDIGO RACES, by Eric Welch.
- 4.50 p.m.—ALMA HORLOCK, soprano:
"By the Waters of Minnetonka," with flute obligato, by J. Barrille.
"I Passed by Your Window."
- 4.57 p.m.—THE STATION ORCHESTRA:
"Soldiers and Comrades" (Handy).
Fantasia on Popular Songs."

W. R. C.

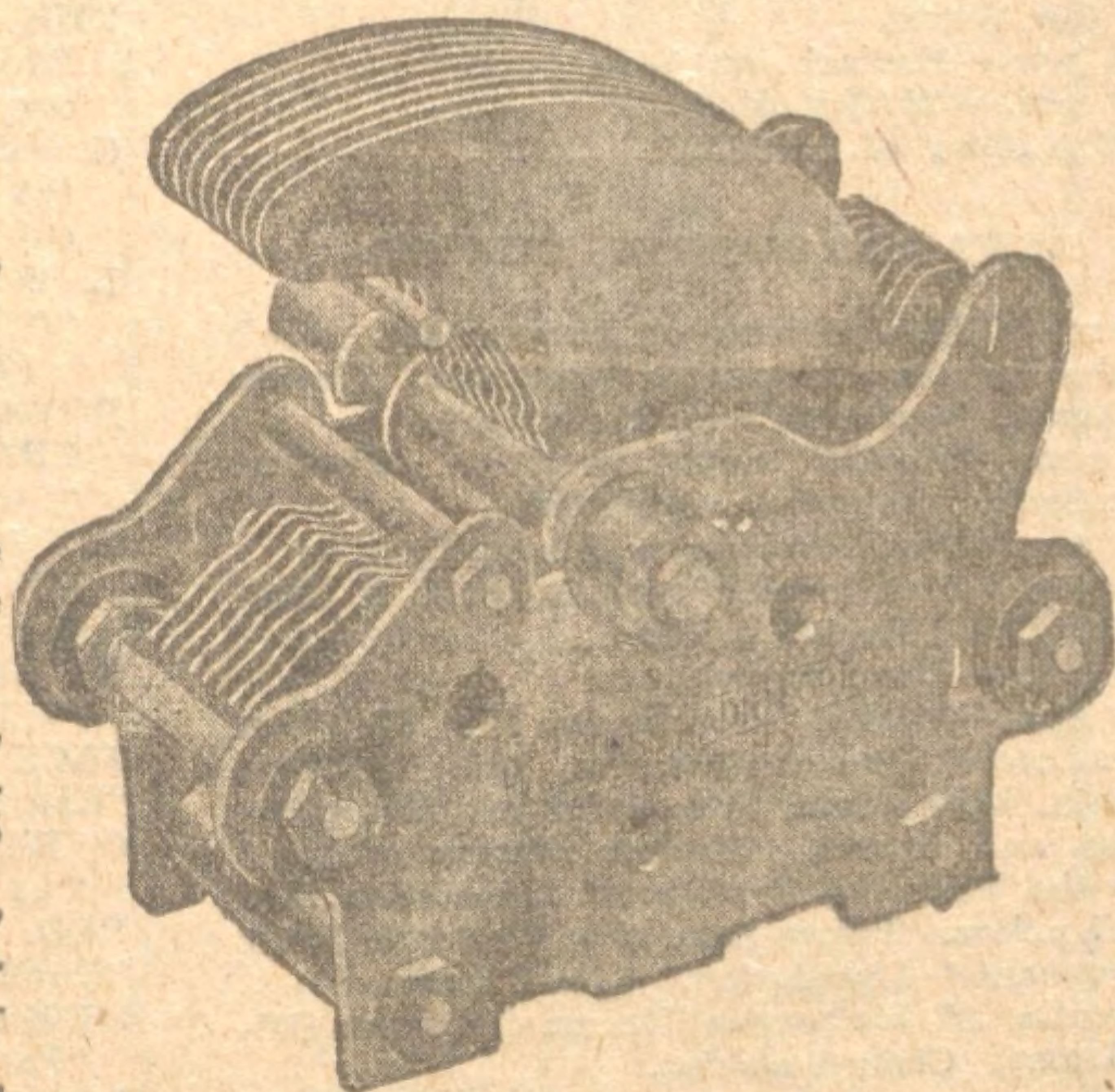
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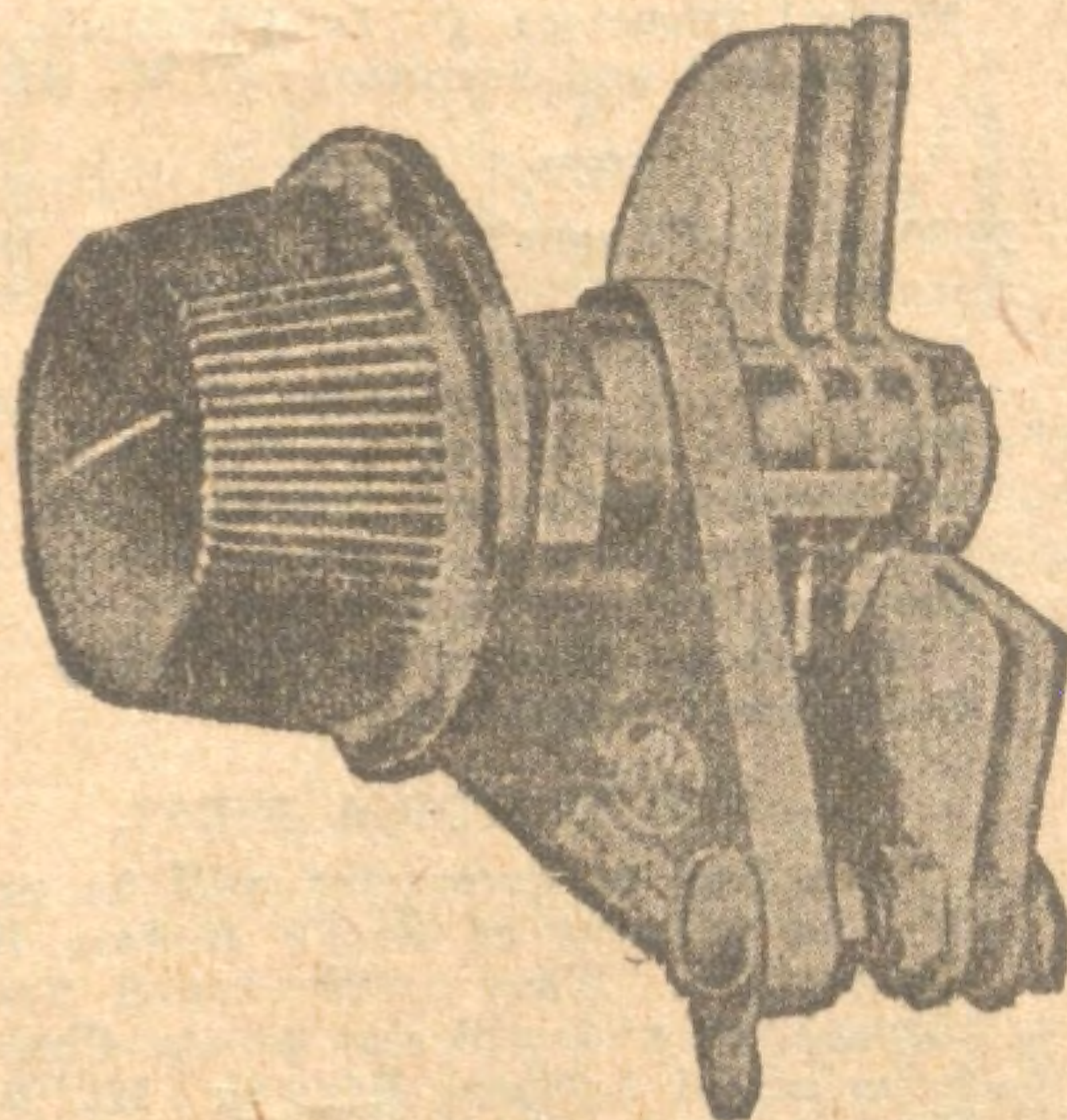
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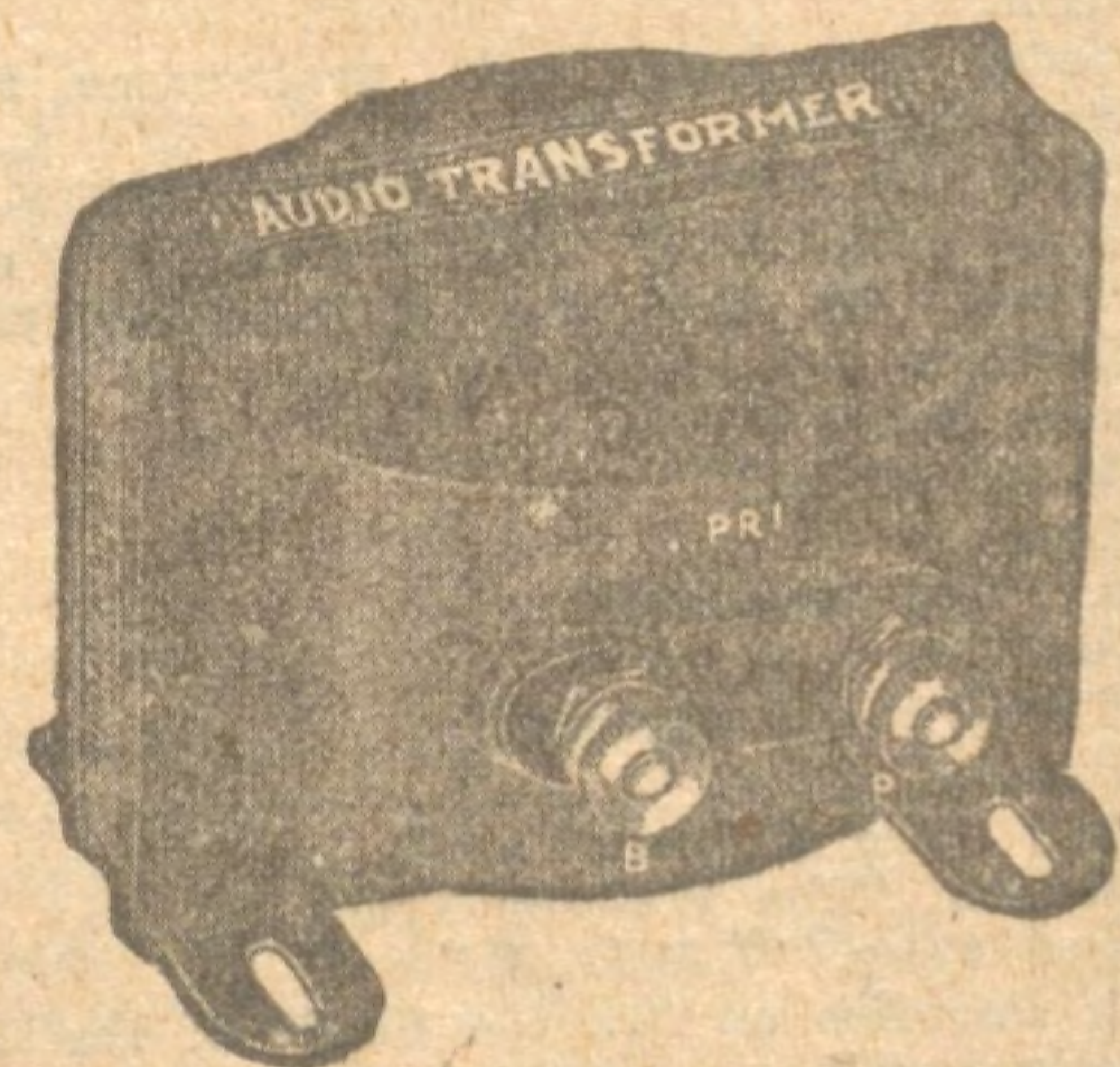
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World Radio Co. of Australasia Ltd.

Merino House

57-59 York Street, SYDNEY

NEWS SESSION.

5.5 p.m.—"Herald" news service, Stock Exchange information,
5.15 p.m.—Close down,

EVENING SESSION.

6 p.m.—Answers to letters and birthday greetings, by "MARY MARY."
6.20 p.m.—CAPT. DONALD MACLEAN:
The Spanish Conquest—
How the Dons Discovered the Treasures of the World.
6.35 p.m.—Musical interlude.
6.40 p.m.—"MARY MARY."
"The Story of Aladdin."

NEWS AND MARKET REPORTS.

7 p.m.—Official report of Newmarket stock sales by the Associated Stock and Station Agents, Bourke Street, Melbourne.
7.5 p.m.—"Herald" news service. Weather synopsis. Shipping movements.
7.12 p.m.—Stock Exchange information.
7.17 p.m.—Fish market reports by J. R. Boret, 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. Prices from the Wholesale Fruit Merchants' Association. Citrus fruits. Results of Melbourne University Inter-Collegiate Championships.

NIGHT SESSION.

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

OUT OF THE PAST.

8 p.m.—To-day is the anniversary of the Battle of Albuera, fought in 1811.
8.1 p.m.—Captain C. H. PETERS:
"Books, Wise and Otherwise."

A MAKER OF HISTORY.

8.15 p.m.—In Memory of William Warde Fowler. Born 1847, died 1921.

"I firmly believe that the one great hope for classical learning and education lies in the interest which the unlearned public may be brought to feel in ancient life and thought."

Birthday greetings and programme announcements.

CAMPFIRE CONCERT COMPETITION.

8.16 p.m.—CONCERT PROGRAMME, arranged by the 1st COLLINGWOOD TROOP:

Massed Songs—

"Mush Mush."

"Updee."

Solo, "The Mermaid."

Massed Songs—

"Three Wood Pigeons."

"Sambo."

Round, "The Animal Fair."

Recitation, "The Wallaby Track."

Massed Song, "S.M.I.L.E."

Duet, Parodies on "In the Shade of the old apple tree."

Massed Songs—

"It all sounds like bunkum to me."

"Days of the week."

Yarn, "A Ghost Yarn."

Massed Songs—

"The Goat."

"Eighteen Pence."

Duet, "D'ye Ken, Tom Brown."

Massed Song, "Aloutte."

Yells—

"A number of yells."

Troop War Cry.

8.40 p.m.—A short story, E. F. RITTER.

BLIND INSTITUTE CONCERT.

PARTY.

8.55 p.m.—OVERTURE by the Royal Institute for the Blind Orchestra—

"King Midas" (Ellenberg).

JACK BYRNS, song:

"Youth" (Allitsen).

A. HARRIS, violin:

"La Ronde des Lutins" (A. Bazzini).

F. SUTCLIFFE, song:

"I Heard a Thrush at Eve" (Cadman).

THE ROYAL VIC. INSTITUTE FOR THE BLIND QUARTETTE PARTY—"Humorous."

G. FINDLAY, piano:

(a) "Waltz in A Major" (Levitsky).

(b) "Danse Negre" (Cyril Scott).

L. WILSON, song:

"O, Night of Stars and Splendour" (Thomson).

ROYAL VICTORIAN INSTITUTE FOR THE BLIND ORCHESTRA. Selection, "Little Mother."

ADDRESS on the Institute's Activities by MR. S. W. HEDGER (Superintendent and Secretary).

W. RULE, song:

"I Did Not Know" (Trotter).

JACK MURPHY, flute solo:

"Rhapsodie Hongroise" (Guill Popp).

C. BENNETT, song:

"At Dawning" (Cadman).

REG. HILL, cornet solo:

"Until" (Sanderson).

MESSRS. WOODS AND FAYNE:

"Patter and Harmony."

ROYAL VICTORIAN INSTITUTE FOR THE BLIND ORCHESTRA: Selection, "Popular Songs."

Musical Director: D. L. PALMER, Superintendent and Secretary: S. W. HEDGER.

NEWS SESSION.

10.20 p.m.—"Argus" news service. Meteorological information. British official wireless news from Rugby.

The Royal Automobile Club's SAFETY MESSAGE for to-day is: "The horn should be reserved for safety purposes; not to signal a person inside a house nor to attract the attention of people passing."

Results of Melbourne University Inter-Collegiate Championships.

SEE VICTORIA FIRST.

"The best of everything will be provided for the winners of 3LO's Buffalo Holiday Competition. They will travel first-class throughout, and will stay at the Chalet, the focus of all holiday life in Mt. Buffalo, National Park. A few steps from the front door is the brink of the abyss, where securely railed-in points command views of tumbled seas of mountains that stretch range after range away into the distance."

TUNEFUL TOKENS.

10.30 p.m.—THE GYPSY PLAYERS:

Two Entr'actes (Thomas).

1. Pastorale.

2. Torch Dance.

10.40 p.m.—RUPERT HAZELL and ELSIE DAY:

"Harmonylarity."

10.52 p.m.—THE GYPSY PLAYERS:

"Petite Suite Moderne" (Rose).

11.2 p.m.—OLIVER PEACOCK, baritone:

"Taviuni" (Pointer).

"Mother, My Dear" (Treharne).

11.9 p.m.—OUR GREAT THOUGHT:

"Retaliation renders neither party better, but always renders both parties worse; the offended party who retaliates does a mean action when he might have done a noble one."—Lady Blesington.

JAZZ FOR THE JOYOUS

JUVENILES.

11.10 p.m.—THE VAGABONDS.

11.40 p.m.—GOD SAVE THE KING.

3AR, MELBOURNE

WEDNESDAY, 16th MAY, 1928.

MORNING NEWS SESSION.

11 a.m. to 12 noon.

MIDDAY CONCERT SESSION.

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

MATINEE SESSION.

ORCHESTRAL DANCE CONCERT.

Sport. During the afternoon results of the Bendigo Races, 1st Day, together with other information, will be broadcast immediately each race is run.

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

2.30 p.m.—Melbourne Concert Orchestra:
Ballet Music from "Rosamunde" (Schubert). Selection, "Canary Cottage" (Carroll).

2.50 p.m.—Miss Vera Thomson, soprano:

"The Wren" (Benedict).

"To a Messenger" (La Forge).

2.57 p.m.—Melbourne Concert Orchestra:

"Tchaikowsky Fantasie" (Urbach).

3.15 p.m.—Miss Vera Thomson, soprano:

"Musetta's Song" from La Boheme (Puccini).

"Porgi Amor" (Mozart).

3.32 p.m.—Ayaz Dansonians:

Fox trot, "Miss Annebelle Lee" (Pollack).

Fox trot: "Down in Old Havana Town" (Friend).

3.30 p.m.—Announcements.

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

3.45 p.m.—Melbourne Concert Orchestra:

"L'Arlesienne, Part I" (Bizet).

4 p.m.—G.P.O. Clock says "Four."

4.1 p.m.—Second weather forecast.

4.3 p.m.—Mr. Ken Code, trombone:

"For you alone" (Geehl).

4.6 p.m.—Mr. Robert Allen, alto:

"Brian of Glenaar" (Graham).

"Sapphic Ode" (Brahms).

4.14 p.m.—Ayaz Dansonians.

4.30 p.m.—Mr. Robert Allen, Male Alto:

"The Blind Ploughman" (Clarke).

"Throb of the passionate day" (Lohr).

4.38 p.m.—Melbourne Concert Orchestra:

"From Schubert's Sketch Book" (Urbach).

4.55 p.m.—Announcements.

To-night's Entertainments.

5 p.m.—G.P.O. Clock says "Five."

God Save the King.

CHILDREN'S SESSION.

6.30 p.m.—3AR's Cousin Peter.

EVENING SESSION.

Concert to be broadcast from St. Patrick's Hall, Bourke Street.

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

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

7.50 p.m.—Macnamara's Stock reports.

8 p.m.—G.P.O. Clock says "Eight."

8.1 p.m.—Preston Citizen's Band.

March: "Our Director" (Bidgood).

8.7 p.m.—Mr. Arch Clarke, humorous entertainer:

"In some original Sketches."

8.14 p.m.—Melbourne Concert Orchestra:

"Overture to an Irish Comedy" (John Ansell).

8.20 p.m.—Preston Citizens' Band.

Selection: "Enchantment" (Rimmer).

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

"Serenade" (Pergament).

"Meditation" (Thais).

8.35 p.m.—Ayaz Dansonians:

Fox trot: "Dolores" (Bloom).

Waltz: "Ramona" (Wayne).

Fox trot: "I'll be lonely" (Woods).

8.44 p.m.—Miss Jean Lewis, contralto:

"Ombra mai Fu" (Handel).

"Wayfarer's Night Song" (Martin).

8.51 p.m.—Mr. J. MacGibbon, cornet solo
 "Londonderry Air" (Ar. Hawkins).
 8.55 p.m.—Preston Citizens' Band.
 March: "The Winning Light" (Holzman).
 9.2 p.m.—Melbourne Concert Orchestra:
 "Delibes Fantasia" (Urbach).
 9.19 p.m.—Mr. Arch. Clarke, humorous enter-
 tainer:
 In Original Numbers.
 9.27 p.m.—Preston Citizens' Band.
 "Favorite Melodies" (Raymond).
 9.37 p.m.—Ayarz Dansonians:
 9.49 p.m.—Announcements.
 10 p.m.—G.P.O. Clock says "Ten."
 10.1 p.m.—Semi-Final Weather forecast,
 specially for our Country Listeners.
 10.3 p.m.—Preston Citizens' Band:
 Waltz, "Fascination" (Rimmer).
 10.13 p.m.—Miss Jean Lewis, contralto:
 "I love you more" (Dorothy Lee).
 "Silver Threads among the gold."
 10.21 p.m.—Melbourne Concert Orchestra:
 Selection: "The Cabaret Girl" (Kern).
 10.31 p.m.—Preston Citizens' Band.
 Intermezzo, "After Sunset" (S. C. Jones).
 March, "Colonel Bogey" (Alford).
 10.45 p.m.—"Harlequin." Sport results.
 10.52 p.m.—"Age" News Service, exclusive
 to 3AR.
 10.58 p.m.—Final Weather forecast.
 10.59 p.m.—Our Australian Good Night quote
 is taken from the poem, "The Lake," by E.
 J. Brady.
 11 p.m.—G.P.O. Clock says "Eleven."
 God Save the King.

4QG, BRISBANE.

WEDNESDAY, 16th MAY, 1928.

MORNING SESSION.

10.30 a.m. to 11.30 a.m.

AFTERNOON SESSION.

1 p.m.—Market reports, weather information.
 "The Daily Mail" and "The Daily Standard"
 news.
 1.30 p.m.—From the Postal Institute:
 Lunch hour music.
 1.58 p.m.—From the Observatory:
 Standard time signal.
 2 p.m.—Close down.

EVENING SESSION.

3.30 p.m.—Mail train running times.
 3.41 p.m.—A programme of music from the
 studio.
 4.15 p.m.—"The Telegraph" news.
 4.30 p.m.—Close down.
 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.—From the Paris Cafe:
 Dinner music.
 6.28 p.m.—FROM THE STUDIO:
 Announcements.
 6.30 p.m.—Bedtime stories by "Little Miss
 Brisbane."
 7 p.m.—Special news service.
 7.3 p.m.—Market reports.
 7.25 p.m.—Fenwick's stock report.
 7.30 p.m.—Weather information.
 7.40 p.m.—Announcements.
 7.43 p.m.—Standard time signals.
 7.45 p.m.—Lecturette: "Plant Breeding"—Mr.
 J. R. A. McMillan (Queensland High School
 and College).

NIGHT SESSION.

A DANCE NIGHT.

8 p.m.—National Anthem.
 A programme of dance music by Alf.
 Featherstone and his Studio Syncopators, re-
 layed from Hotel Carlton, including:—
 Fox-trots—
 (a) "Brown Eyes in Your Dreams" (Ten-
 nent).

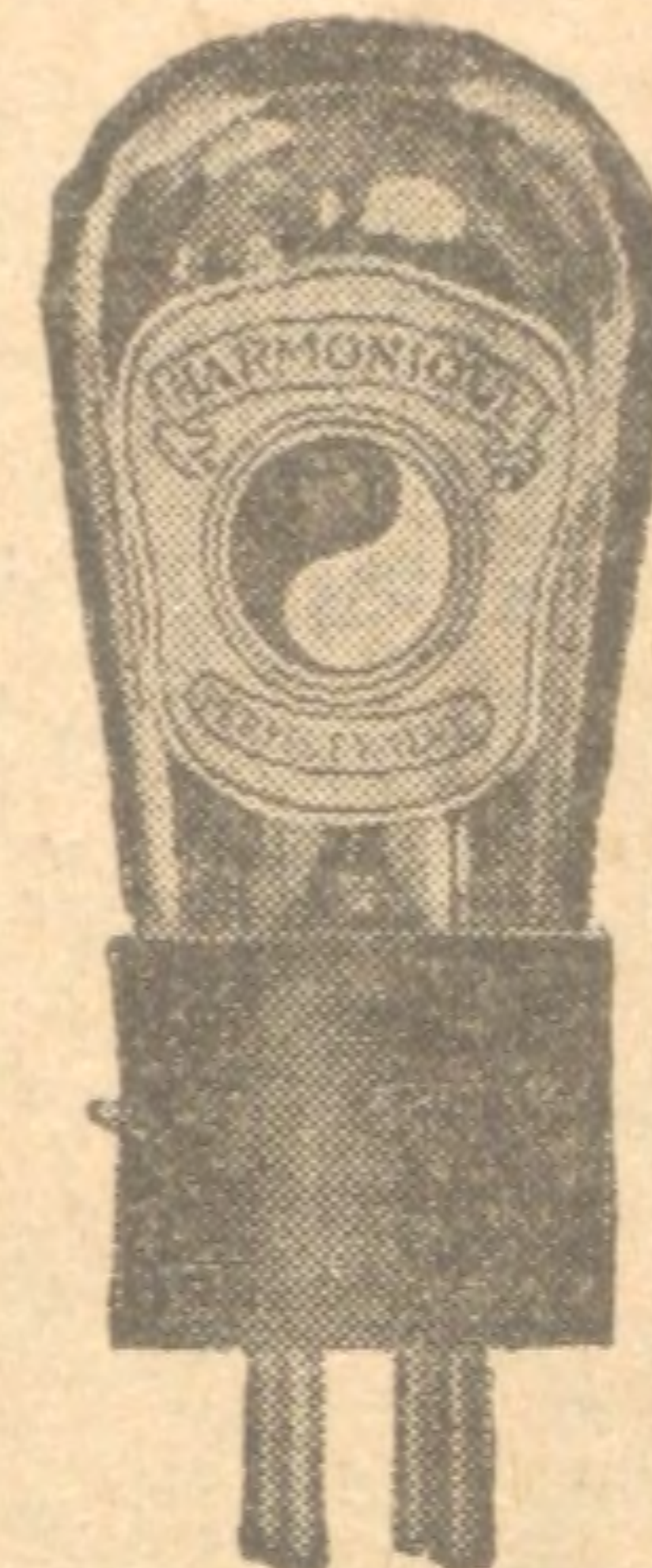
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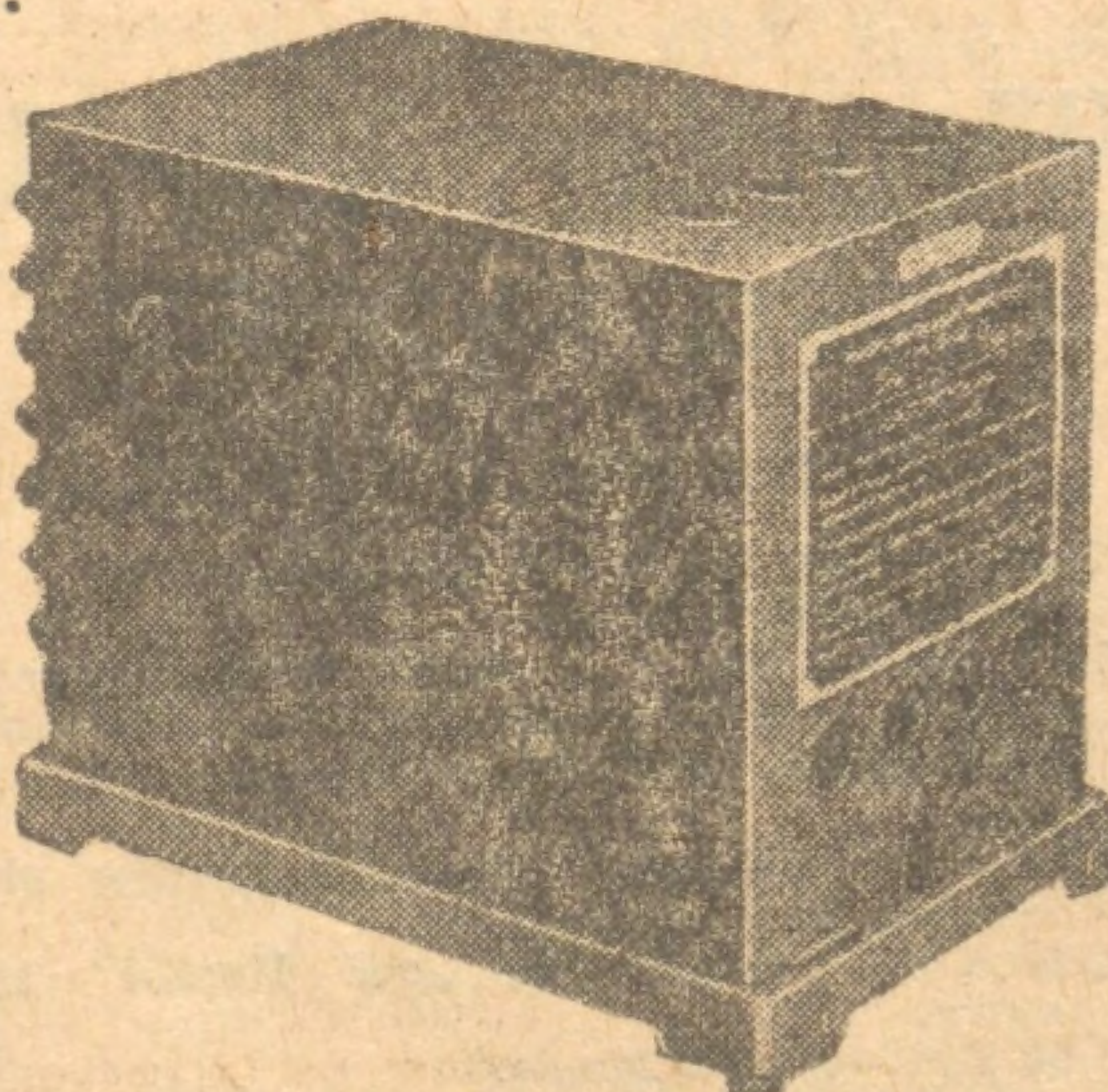
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*It has been proved that to-day the care of wireless instru-
 ments is a much more intricate study than it was
 in past years. If you are having trouble with reception
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 who will be pleased to give advice.*

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PHILIPS ELIMINATOR



£9/15/-

Excellent Value

There can be no possible doubt that
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 be installed in any type of valve
 receiver, entirely eliminating all
 "B" battery troubles. Price, £9/15/-

Farmer's do not pay the carriage
 on wireless goods or accessories.

Pitt, Market and George Streets, Sydney.

- (b) "My Best Girl" (Donaldson).
By request—
Fox-trots—
(a) "When the Red, Red Robin" (Woods).
(b) "Some Other Bird Whistled a Tune" (Bryan).
Jazz Waltz—
"I've Been Wasting My Dreams Over You" (O'Hagan).
Rhythmic Paraphrase—
(a) "Faust" (arr. Lange).
(b) "Broken Moon" (Roberts).
Fox-trots—
(a) "That's Why I Love You" (Donaldson).
(b) "Just Like a Butterfly" (Dixon).
(c) "No One" (Ager).
(d) "I Like You Best of All" (Little).
Jazz waltz—
"Honolulu Moon" (Lawrence).
One-steps—
(a) "Cover Me Up With Sunshine" (Dixon).
(b) "I'm Looking Over a Four-Leaf Clover."
Between dances the following will be broadcast from the studio:—
Vocal duets—selected.
Mrs. M. L. Spanjer and Miss Dossie Hargreaves.
Soprano solos—
(a) "I've Got a Robe" (Negro Spiritual—Burleigh).
(b) "Vilia"—from "The Merry Widow" (Lehar).
Mrs. Robert Bell.
Tenor solos—
(a) "The English Rose" (German).
(b) "La Donna e Mobile" (Verdi).
Mr. C. H. Wyman.
Soubrette numbers—
(a) "Red, Red Robin" (Wood).
(b) "My Blue Bird" (Bulmer).
Miss Billie Bailey.
"The Daily Mail" news. Weather news.

6WF, PERTH.

WEDNESDAY, 16th MAY, 1928.

MIDDAY SESSION.

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

AFTERNOON SESSION.

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

EVENING SESSION.

- 6.45 p.m.—Tune in.
The evening transmission is broadcast on 104.5 metres as well as the usual wavelength.
6.50 p.m.—Stories for the Kiddies by Uncle 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.

5CL, ADELAIDE.

WEDNESDAY, 16th MAY, 1928.

MIDDAY SESSION.

12 noon to 2 p.m.

AFTERNOON SESSION.

- 3 p.m.—G.P.O. chimes and Bendigo racing results.
3.1 p.m.—Musical numbers from the studio.
3.25 p.m.—Menu talk by "Homelover."
3.45 p.m.—Fashion talk by "Homelover."
4 p.m.—G.P.O. Chimes.
4.1 p.m.—Musical numbers from the studio.
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.
6.30 p.m.—Dinner Music from the studio.
7 p.m.—G.P.O. Chimes.
7.1 p.m.—General Market reports by A. W. Sandford and Co., A. E. Hall and Co., Dalgety and Co., S.A. Farmers Co-operative Union, Taylor Bros., Retail Grocers Association, Interstate Fruit and Produce Market Co., Ltd.
7.10 p.m.—S. C. Ward and Co.'s Stock Exchange Intelligence.
7.15 p.m.—Extracts from "News Bulletin."
7.30 p.m.—Boy Scouts Corner.
7.45 p.m.—Entertainment by the "Bird Lady" for the 5CL Bluebird Girls Club.
8 p.m.—G.P.O. chimes.
8.1 p.m.—Holden's Silver Band.
8.11 p.m.—Ern Bailey, tenor.
8.18 p.m.—Holden's Silver Band.
8.26 p.m.—Ern Bailey, tenor.
8.30 p.m.—Relay from Glenelg, The Maison Dance Band.
9.1 p.m.—Meteorological information, weather forecast.
9.2 p.m.—Dalgety's Wheat report.
9.3 p.m.—International News.
9.9 p.m.—Jean Findlay, pianoforte recital.
9.17 p.m.—Madame Back, soprano.
9.24 p.m.—Holden's Silver Band.
9.45 p.m.—Madame Back, soprano.
9.48 p.m.—Jean Findlay, pianoforte recital.
9.54 p.m.—Holden's Silver Band.
10.1 p.m.—"Advertiser" news Service and Interstate and local sporting results.
10.10 p.m.—Wireless Shipping contacts.
10.12 p.m.—Gerald Moyes, baritone.
10.19 p.m.—Holden's Silver Band.
10.23 p.m.—Gerald Moyes, baritone.
10.26 p.m.—Relayed from Glenelg, The Maison Dance Band.
10.55 p.m.—Station announcements and tomorrow's programme.
11 p.m.—G.P.O. Chimes and National Anthem.

Thursday, May 17

2FC, SYDNEY

EARLY MORNING SESSION.

- 7 p.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.
7.45 a.m.—"Sydney Morning Herald" summary.
7.50 a.m.—Studio Music.
8 a.m.—"Big Ben." Close down.

MORNING SESSION.

- 10 a.m.—"Big Ben" and announcements.
10.5 a.m.—Studio Music.
10.15 a.m.—"Sydney Morning Herald" news service.
10.30 a.m.—Studio Music.
10.35 a.m.—Last minute sporting information by the 2FC Commissioner.

- 10.45 a.m.—A talk by "Delisse."
11 a.m.—"Big Ben." Studio Music.
11.5 a.m.—A.P.A. and Rueter's Cables.
11.10 a.m.—Studio Music.
11.15 a.m.—A reading.
11.30 a.m.—Close down.

MIDDAY SESSION.

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

AFTERNOON SESSION.

- 3 p.m.—"Big Ben" and programme announcements.
3.5 p.m.—From the Christ Church, St. Laurence: An organ recital, arranged by Christian Hellemann.
3.20 p.m.—From the Studio: Esther Herford, soprano:
"Duna" (Josephine McGill).
3.25 p.m.—From the Christ Church, St. Laurence: Continuation of Organ Recital by Christian Hellemann.
3.49 p.m.—From the Studio:
Fosse Brakell, contralto.
3.45 p.m.—From the Christ Church, St. Laurence: organ solos by Christian Hellemann.
4 p.m.—From the Studio:
Ivy Dunstone, mezzo.
4.5 p.m.—From the Christ Church, St. Laurence: Concluding items from the recital by Christian Hellemann.
4.20 p.m.—From the Studio:
William Bowyer, basso:
"Will the Red Sun Never Set" (Finden).
4.25 p.m.—Clyde Thorpe, violinist:
(a) "Le Caprice" (Coleridge Taylor).
(b) "Un Sonnet D'Amour" (Coleridge Taylor).
4.33 p.m.—Esther Herford, soprano:
"The Garden Wind" (Hazel Jenner).
4.37 p.m.—William Bowyer, basso:
"A Russian Love Song" (Lardelli).
4.40 p.m.—Fosse Brakell, contralto.
4.45 p.m.—Stock Exchange, third call.
4.47 p.m.—Ivy Dunstone, mezzo.
4.50 p.m.—Clyde Thorpe, violinist:
"La Tarantelle" (Coleridge Taylor).
4.55 p.m.—Studio music.
5 p.m.—"Big Ben." Close down.

EARLY EVENING SESSION.

- 5.40 p.m.—The chimes of 2FC.
5.45 p.m.—The "Hello Man" talks to the children.
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 intelligence.
6.50 p.m.—Studio talk.
7 p.m.—"Big Ben." Dinner music.
7.30 p.m.—Late "Evening News" news service.

NIGHT SESSION.

GRAND OPERA AND CLASSIC.

- 7.40 p.m.—Programme announcements.
7.45 p.m.—Norman McLennan, baritone:
(a) "Macushla" (Macmurrough).
(b) "The Pride of Tipperary" (Lohead).
7.53 p.m.—Keith Desmond, entertainer.
8 p.m.—"Big Ben." The 2FC Studio Orchestra conducted by Horace Keats.
(a) Overture, "Tancredi" (Rossini).
(b) "The Brocaded Petticoat" (Phyllan).

8.15 p.m.—Synopsis of Wagner's Opera, "Lohengrin," with historical and descriptive comment, arranged by Roland Foster.

ACT ONE.

CHARACTERS.

Elsa Daisy Mangan, soprano
Ortrud Merle Miller, contralto
Lohengrin Molyneux Phillips
Tehamund H. Tremayne
Herald Mr. Sallabank
(a) Opening Scene.
(b) Elsa's Dream.
(c) King's Prayer.

8.40 p.m.—The 2FC Studio Orchestra:
Selection, "The Count of Luxemburg"
(Lehar).

8.55 p.m.—Norman McLennan, baritone:
(a) "I heard a Bluebird Singing" (Major and Crocker).
(b) Request number.

9.3 p.m.—Late weather forecast.

9.4 p.m.—James Pheloung:
Cornet solos.

9.10 p.m.—Synopsis of Wagner's Opera, "Lohengrin," with historical and descriptive comment, arranged by Roland Foster.

ACT TWO.

(a) Ortrud and Tehamund.
(b) Ortrud and Elsa.
(c) Processional March and entry of Nobles.
(d) Elsa and Ortrud.

9.25 p.m.—The 2FC Orchestra:
"Danse Macabre" (Saint-Saens).

9.35 p.m.—Keith Desmond, entertainer.

9.43 p.m.—James Pheloung:
Cornet solo.

9.50 p.m.—Synopsis of Wagner's Opera, "Lohengrin," with historical and descriptive comment, arranged by Roland Foster.

ACT THREE.

(a) Bridal Chorus.
(b) Elsa and Lohengrin.
(c) Lohengrin's Narration.
(d) Lohengrin's Farewell.

10.10 p.m.—The 2FC Studio Orchestra:
(a) Three Dances from "Tom Jones" (German).

(b) "The Dance of Spring" (Schytte).

10.25 p.m.—Late weather forecast.

10.26 p.m.—From the Ambassadors. The Ambassadors' Dance Orchestra, conductor, Al Hammet. Intervals at the Ambassadors will be filled with music from the studio.

10.57 p.m.—From the studio:

To-morrow's programme and late news.

11 p.m.—"Big Ben." The Ambassadors' Dance Orchestra, in popular numbers until 11.45 p.m.

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

2BL, SYDNEY

THURSDAY, 17th MAY, 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 "Architecture," by Mr. Brogan.

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.

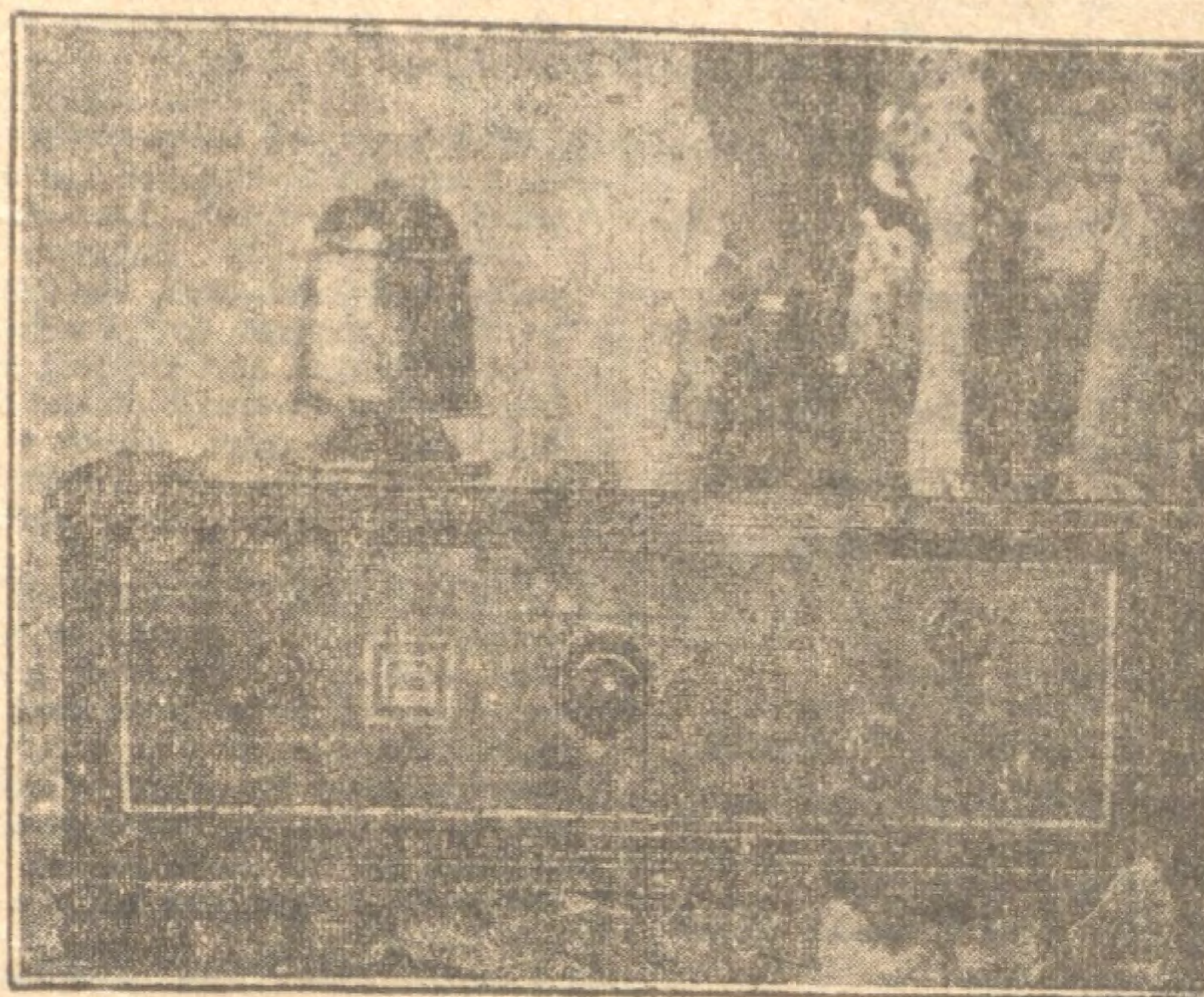
12.21 p.m.—London Metal Market Report.

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

12.26 p.m.—Fish Market Report.

12.28 p.m.—Rabbit Market Report.

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DAVID JONES'

Castlereagh, Market & Elizabeth Streets.

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.
 2.0 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."
 3.10 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.—Dinner Music.

SPECIAL COUNTRY SESSION.

7.0 p.m.—G.P.O. Clock and Chimes; Australian Mercantile Land and Finance Co.'s Report; Weather Report and Forecast by courtesy of the Government Meteorologist; Producers' Distributing Society's Fruit and Vegetable Market Report; Stock Exchange Report; Grain and Fodder Report ("Sun"); Dairy Produce Report ("Sun"); Weekly Traffic Bulletin.
 7.15 p.m.—Country News from the "Sun."
 7.30 p.m.—News from the "Sun."
 7.45 p.m.—Helpful Hints to Listeners, by Mr. Alan Burrows.
 8.0 p.m.—G.P.O. Clock and Chimes; An Hour of Comic Opera; Broadcasters' Topical Chorus.
 8.3 p.m.—Mr. W. E. Lewis (Baritone).
 8.10 p.m.—Broadcasters' Instrumental Trio.
 8.17 p.m.—Miss Dorrie Ward (Soprano).
 8.24 p.m.—The Railway and Tramway Symphony Orchestra.
 8.34 p.m.—Mr. W. E. Lewis.
 8.41 p.m.—Broadcasters' Instrumental Trio.
 8.48 p.m.—Miss Dorrie Ward.
 8.55 p.m.—Duet, Miss Dorrie Ward and Mr. W. E. Lewis.
 9.0 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.—Miss Madge Clague (Contralto).
 9.8 p.m.—Broadcasters' Instrumental Trio.
 9.15 p.m.—Mr. Norman Wright (Tenor).
 9.22 p.m.—Mr. Robert Turner (Elocutionist).
 9.29 p.m.—The Railway and Tramway Symphony Orchestra.
 9.49 p.m.—Miss Madge Clague.
 9.56 p.m.—Mr. Robert Turner.
 10.3 p.m.—Mr. Norman Wright.
 10.10 p.m.—Resume of Following Day's Programme.
 10.15 p.m.—The Wentworth Cafe Orchestra, under the Direction of Mr. Jimmy Elkins. During intervals between dances, "Sun" News will be broadcast.
 11.30 p.m.—G.P.O. Clock and Chimes; National Anthem.

3LO, MELBOURNE.

THURSDAY, 17th MAY, 1928.

EARLY MORNING SESSION.

7.15 a.m.—Morning Melodies.
 7.20 a.m.—Physical Culture Exercises.
 7.27 a.m.—Morning Melodies.
 7.33 a.m.—Weather forecast for all States, Mails.
 7.40 a.m.—News.

8 a.m.—Melbourne Observatory time signal.
 8.1 a.m.—Morning Melodies.
 8.5 a.m.—News, Sporting information, Shipping, Stock Exchange information.
 8.13 a.m.—Morning Melodies.

MORNING SESSION.

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

SAVOURY OMELET.

Two eggs, $\frac{1}{4}$ teaspoonful chopped parsley, $\frac{1}{4}$ teaspoonful chopped thyme or marjoram, pinch salt, pepper, loz. butter.

METHOD.—(1) Separate whites from yolks and beat each separately. (2) Add parsley, thyme or marjoram, salt, and pepper to yolk and whites; mix lightly. (3) Melt butter in small omelet pan. (4) When hot, stir in eggs, allow to set and just color. (5) Turn very carefully with a large knife and form into a roll. (6) Serve at once on a hot dish.

THE HOUSEWIFE'S GUIDE.—Characteristics of good meat. A joint should look well, and should be fresh and bright. Mutton is much paler than beef. The substance should be plump and elastic to the touch (avoid flabby or watery looking meat). It should have a marbled appearance, with little streaks of fat interspersed with the lean. When fat is firm the joints are most suitable for hanging.

11.5 a.m.—Under the Auspices of the Boy Scouts' Association, Mr. McADAM will speak to mothers of Boy Scouts.

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. "Health and Hygiene."

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. Reuters' and The Australian Press Association cables. "Argus" news service.

12.15 p.m.—COMMUNITY SINGING:

Under the Auspices of the Community Singers and Concert Goers' Association, COMMUNITY SINGING will be transmitted from the Assembly Hall, Collins Street, Melbourne.

FROM THE STUDIO.

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

AFTERNOON SESSION.

2.15 p.m.—The Parents' National Educational Union, whose objects are by this time well known in Victoria, have always included the hearing of good music in the work set for students following their syllabus. Schubert is the composer chosen for the first term, and Wagner is to be studied in the second term of the current school year. 3LO, Melbourne is desirous of giving country students the opportunity of hearing the programme set out by the Union, and will therefore give two short concerts, one today, and one next Thursday, at 2.15 p.m. Introductory Remarks.

2.20 p.m.—AGNES FORTUNE, piano: "Sonata No. 10 in B Flat"—1st Movement (Schubert).

2.30 p.m.—MONA NUGENT, Soprano:

"Hark, Hark the Lark" (Schubert).

"Who is Sylvia" (Schubert).

2.37 p.m.—BERTHA JORGENSON and AGNES FORTUNE, Violin and Piano: "Sonatina for Violin and Piano, Op. 137" (Schubert).

2.47 p.m.—J. HOWARD KING, Baritone:

"The Erl King" (Schubert).

2.52 p.m.—THE STATION ORCHESTRA:

"The Unfinished Symphony" (Schubert).

EDUCATION HOUR.

3.8 p.m.—DR. LOFTUS HILLS:

"Topics of the Week."

3.23 p.m.—WILLIAM G. JAMES will talk to Students of Music.

3.38 p.m.—REV. W. BOTTOMLEY: "Idylls of the King" (Kingsley). The Holy Grail.

3.52 p.m.—THE GYPSY PLAYERS: Selected.

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

"Harmonylarity."

4.7 p.m.—THE GYPSY PLAYERS:

Irish Pictures (Ansell).

4.12 p.m.—MINA HESELEVA, Soprano:

"Song of the Fish" (Arensky).

"We Sat Together" (Tchaikowsky).

4.19 p.m.—THE STATION ORCHESTRA:

"Festival Dance," Valse of the Hours, and

"Czardas," from the Ballet "Coppelia" (Delibes).

NEWS SESSION.

4.30 p.m.—"Herald" news service. Stock Exchange information. Weather report from Adelaide and Mildura district.

EVENSONG.

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

FROM THE STUDIO.

5.30 p.m.—Acceptances for Williamstown races on Saturday.

5.35 p.m.—Close down.

During the afternoon results will be given of Bendigo, Casterton and Bungee races.

EVENING SESSION.

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

6.20 p.m.—DICKSON GREGORY:

"The Avoca Gold Robbery—a Ship's Carpenter Steals 5000 Sovereigns."

6.35 p.m.—Musical interlude.

6.40 p.m.—"MARY GUMLEAF"—More about "The Enchanted Forest."

"The Jazz Band."

NEWS AND MARKET REPORTS.

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

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

7.12 p.m.—Stock Exchange information.

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

7.19 p.m.—River reports.

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

NIGHT SESSION.

7.30 p.m.—Under the Auspices of the Health Association, Dr. J. POLACK, president, will speak on:

"Preventive Dentistry."

7.45 p.m.—LORNA HELMS, now appearing in "The Girl Friend," at His Majesty's Theatre, will speak to you from her dressing-room, by permission of J. C. Williamson, Ltd.

OUT OF THE PAST.

This is the Anniversary of the discovery of gold in New South Wales in 1851.

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

A MAKER OF HISTORY.

8.15 p.m.—This is the Anniversary of the birth of EDWARD JENNER, M.D., the discoverer of vaccination. Born 1749; died 1823.

Birthday greetings and programme announcements.

3LO'S DANCE NIGHT.

"Laugh and be merry, remember, better the world with a song,

Better the world with a blow in the teeth of a wrong.

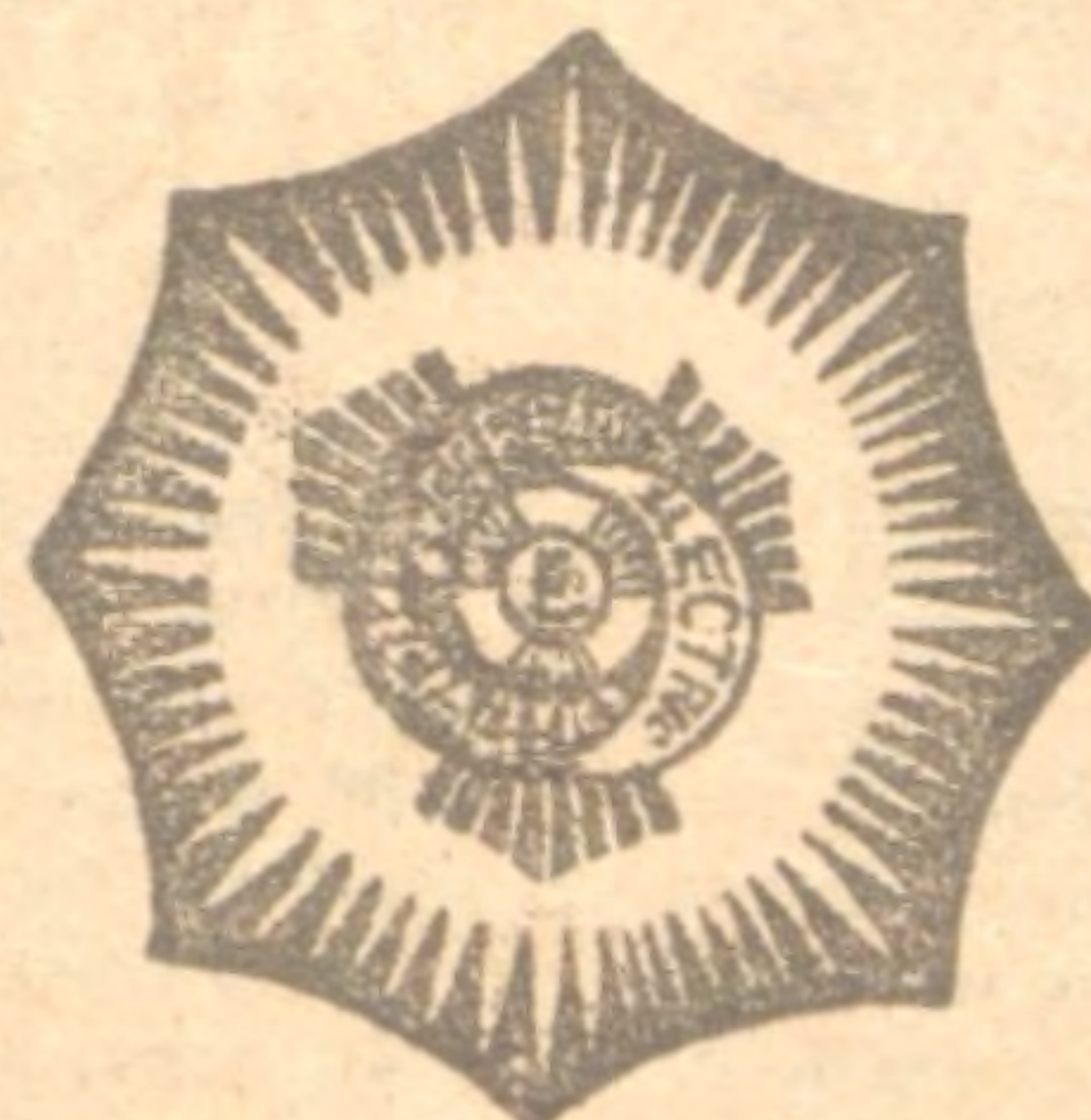
Laugh, for the time is brief, a thread the length of a span.

Laugh and be proud to belong to the old proud pageant of man."

—John Masefield.

- 8.16 p.m.—THE VAGABONDS:
 "Who-o, You, That's Who" (Yellen).
 "The Wedding Waltz" (Gilbert).
 "The Sunrise" (Santley).
- 8.25 p.m.—MINA HESELEVA, Soprano:
 Valse Song from "Romeo and Juliet."
- 8.28 p.m.—THE VAGABONDS:
 "Half a Moon" (Hanley).
 "Deep River Blues."
 "She Belongs to Me" (Johnson).
- 8.37 p.m.—RUPERT HAZELL AND ELSIE DAY:
 "Harmonylarity."
- 8.40 p.m.—THE VAGABONDS:
 "Just a Little Cuter" (Alexander).
 "Yale Blues."
 "Baby, Your Mother."
- 8.49 p.m.—GORDON JAMES, Baritone:
 "My Ould Loves" (R. H. Woodman).
- 8.52 p.m.—SEE VICTORIA FIRST.
- 8.53 p.m.—THE VAGABONDS:
 "Spanish Moon."
 "There must be a silver lining."
 "Chopinata" (Doncet).
- 9.2 p.m.—ISOBEL BIDDELL, Contralto:
 "Boat Song" (Ware).
- 9.5 p.m.—THE VAGABONDS:
 "A shady tree."
 "The spell of the Moon" (Kahn).
 "My Ohio Home" (Kahn).
- 9.14 p.m.—MINA HESELEVA, Soprano:
 "Valse: Parla" (Arditi).
- 9.17 p.m.—THE VAGABONDS:
 Request items.
- 9.24 p.m.—GORDON JAMES, Baritone:
 "To-night and all the Years" (Philips).
- 9.27 p.m.—THE VAGABONDS:
 "Dainty Miss": Piano solo.
 "Lazy weather" (Trent).
 "Broken Hearted" (Lewis).
- 9.36 p.m.—RUPERT HAZELL:
 "Harmonylarity."
- 9.39 p.m.—THE VAGABONDS:
 "From Now On" (Friend).
 "Rose of the Volga" (Kahn).
 "Cheerie Beerie Bee."
- 9.48 p.m.—ELsie DAY, Soprano:
 Selected.
- 9.51 p.m.—THE VAGABONDS:
 "I Walked back from the Buggy Ride"
 (Adams).
 "Diane" (Rapee).
 "The Blue Room."
- 10 p.m.—Argus news service. British Official
 Wireless news from Rugby. Meteorological
 information. Announcements. Sporting
 notes by "Olympus," Island shipping move-
 ments. Results of Public School Tennis
 Championship.
- THE ROYAL AUTOMOBILE CLUB OF
 VICTORIA'S SAFETY MESSAGE FOR
 TO-DAY IS:—
 "Your health is your wealth—find your weak
 spot before it finds you. I'd have a health
 examination."
- 10.15 p.m.—THE VAGABONDS:
 "The Girl Friend."
 "Following You Around" (Kahn).
 "Who's Loving You Tonight—" (Rose).
- 10.24 p.m.—GORDON JAMES, Baritone:
 "I Think of You, My Sweet" (Haydn Wood).
- 10.27 p.m.—THE VAGABONDS:
 "Are You Happy—" (Agar).
 "Egyptian Echoes" (Black).
 "All by My Onesome" (Kahn).
- 10.36 p.m.—ISOBEL BIDDELL, Contralto:
 "The Ecstasy of Spring" (Rachmaninoff).
- 10.39 p.m.—THE VAGABONDS:
 "Dancing Tambourines" (Polla).
 "Barbara" (Silver).
 "What will You Do—"
- 10.48 p.m.—MINA HESELEVA, Soprano:
 "Snow Maiden" (Rimsky-Korsakoff).
- 10.51 p.m.—THE VAGABONDS:
 "Hungaria"
 "Funny Tune" (Olsen).
 "The Magic of Moonlight and Love"
 (Hayes).
- 11 p.m.—OUR GREAT THOUGHT:
 "Laugh and be merry together, like brothers
 akin,
 Guesting awhile in the rooms of a beautiful
 inn,
 Glad till the dancing stops, and the lilt of
 the music ends.
 Laugh till the game is played;
 and be you merry, my friends."
 —John Masefield.
- 11.1 p.m.—THE VAGABONDS.
 "LAUGH AND BE MERRY."
- 11.40 p.m.—GOD SAVE THE KING.

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 Large size, XP, 60V 31/6
 Type HD 45V 22/6
 Type SS 45V 26/-

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3AR, MELBOURNE

THURSDAY, 17th MAY, 1928.

MORNING NEWS SESSION.

11 a.m. to 12 noon.

MIDDAY CONCERT SESSION.

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

MATINEE SESSION.

ORCHESTRAL CONCERT.

Sport. During the afternoon the results of the Bendigo Races (2nd Day), and other information, will be broadcast immediately each race is run.

- 2 p.m.—Ayarz Dansonians:
A half-hour Dance Session by Melbourne's favorite Dance Band. The latest hits, each one announced prior to its presentation.
- 2.30 p.m.—Melbourne Concert Orchestra:
"Ballet Suite" from Sylvia (Delibes).
- 2.50 p.m.—Miss Vida Lugg, mezzo soprano:
"The False Prophet" (Scott).
"Four Leaf Clover" (Brownell).
- 2.58 p.m.—Melbourne Concert Orchestra:
"Three Cuban Dances" (Cervantes).
"Pas des fleurs" (Delibes).
- 3.13 p.m.—Miss Vida Lugg, mezzo soprano:
"The Lilac Tree" (Gartlan).
"A little Coon's Prayer" (Hope).
- 3.20 p.m.—Ayarz Dansonians:
Fox trot: "Mary" (Donaldson).
Fox trot: "A Shady Tree" (Donaldson).
Waltz: "The Song is ended" (Berlin).
- 3.30 p.m.—Announcements.
- 3.35 p.m.—Cookery Talk by Miss G. Hughes, of the Colonial Gas Association.
- 3.45 p.m.—Melbourne Concert Orchestra:
Suite: "Gipsy Pictures" (Hugh Mallory).
"The Savoy Welsh Medley" (Somers).
- 4 p.m.—G.P.O. Clock says "Four."
- 4.1 p.m.—Second Weather forecast.
- 4.3 p.m.—Mr. Tom Semple, tenor:
"The Yeoman's Wedding Song" (Prince Poniatowski).
"O Mistress Mine" (Roger Quilter).
- 4.11 p.m.—Ayarz Dansonians:
- 4.27 p.m.—Mr. Ronald Brearley, cello:
"Chanson Nuit" (Elgar).
- 4.30 p.m.—Mr. Tom Semple, tenor:
"Blow, Blow thou winter wind" (Roger Quilter).
"Because" (Guy d'Hardelot).
- 4.38 p.m.—Melbourne Concert Orchestra:
Dance Suite, "The Shoe Ballet" (Ansell).
"Scherzo" (Mendelssohn).
- 4.55 p.m.—Special racing report. Acceptances and Barrier positions for Saturday's races by G.F.R.
- 5 p.m.—G.P.O. Clock says "Five."
God Save the King.

CHILDREN'S SESSION.

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

EVENING SESSION.

SONG AND DANCE.

- 7.15 p.m.—Stamp session. Mr. A. G. Kelson, Vice-President of the 3AR Stamp Club.
- 7.25 p.m.—Early Victorian History. Mr. F. A. Currie's interesting talk this week will deal with "Settlement of the Goulburn Valley."
- 7.35 p.m.—Sport Session. "Harlequin" presents his budget of up-to-date news and comments on Sport of the day.
- 7.50 p.m.—Macnamara's Stock reports.
McPhail Anderson's Pig Market.
- 8 p.m.—G.P.O. Clock says "Eight."
- 8.1 p.m.—Melbourne Concert Orchestra:
A Miniature Overture: "The Merry-makers" (Eric Coates).
"Valse Suite" (Brahms).
- 8.16 p.m.—Miss Lilian Paton, soprano:
"The Arrow and the Song" (Balfe).
"O the oak and the ash" (17th Century).
- 8.24 p.m.—Melbourne Concert Orchestra:
Suite: "First African Suite" (E. Dorothea Barcroft).
"Toreador et Andalouse" (Anton Rubinstein).
"Intermezzo Lirico" (Giuseppe Becce).
- 8.42 p.m.—Mr. John Hobbs, bass baritone:
"The Old Shepherd" (W. Sanderson).
"Pass Everyman" (W. Sanderson).

- 8.50 p.m.—Announcements.
- 9.2 p.m.—Melbourne Concert Orchestra:
"A Godard Cycle" (E. Urbach).
- 9.19 p.m.—Miss Ethel Brearley, piano:
"Caprice Viennois" (Kreisler).
- 9.22 p.m.—Miss Lilian Paton, soprano:
"The Spirit Song" (Haydn).
"The Winds are calling" (Landon Ronald).
- 9.30 p.m.—"Harlequin." Sport results.
- 9.38 p.m.—Melbourne Concert Orchestra.
Selection: "L'Enfant Prodigue" (Andre Wormser).
- 9.50 p.m.—Announcements.
- 10 p.m.—G.P.O. Clock says "Ten."
- 10.1 p.m.—Semi-Final Weather forecast, specially for our Country Listeners.
- 10.3 p.m.—Melbourne Concert Orchestra:
Suite: "On the Nile" (R. Hilse).
"A Love Suite" (M. Lake).
- 10.16 p.m.—Mr. Herbert Pettifer, violin:
"Czardas" (Monti).
"Serenade" (Arensky).
- 10.21 p.m.—Mr. John Hobbs, bass baritone:
"Moire my girl" (Aitken).
"The Raft" (Pinsuti).
- 10.29 p.m.—Melbourne Concert Orchestra:
"Romance" (Tchaikowsky, Op. 5).
"Ballet Egyptien" (A. Luigini).
- 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, "Slumber Song" by Mary H. Poynter.
- 11 p.m.—G.P.O. Clock says "Eleven."
God Save the King.

4QG, BRISBANE.

THURSDAY, 17th MAY, 1928.

MORNING SESSION.

10.30 a.m. to 11.30 a.m.

MIDDAY SESSION.

- 1.0 p.m.—Market Reports; Weather Information; "The Daily Mail" and "The Daily Standard" News.
- 1.20 p.m.—From the Constitutional Club: A Lunch Hour Address.
- 1.58 p.m.—From the Observatory: 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.—A Talk to Motorists: "A Short History of Transportation," 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: "Progress of Agriculture in Queensland"—Mr. J. F. F. Reid (Editor "Queensland Agricultural Journal")

NIGHT SESSION.

CLASSICAL MUSIC BY MR. ERIC HAYNE'S PARTY.

- 8.0 p.m.—From the Studio:
National Anthem.
Trio for violin, 'cello and piano:
"Legende in E Major" (Josef Trousselle).
Miss Otilie Cloake ('cello), Miss Cecile Pritchard (piano), and Mr. Eric Hayne (violin).

- 8.6 p.m.—Violin solo:
"Adagio and Rondo Con Spirito" (Rode).
Mr. Eric Hayne.
- 8.12 p.m.—Baritone solos:
Two Old English Folk Songs (arranged by Cyril Scott):
(a) "Blackbirds and Thrushes."
(b) "O Wally, Wally."
Mr. Les Edye.
- 8.20 p.m.—Piano solos:
(a) "L'Automme" (Chaminade).
(b) "Rosemary" (Frank Bridge).
Miss Cecile Pritchard.
- 8.27 p.m.—Cello solo:
"Berceuse de Jocelyn" (Godard).
Miss Otilie Cloake.
- 8.32 p.m.—Baritone solo:
"When Silent Night" (Rachmaninoff).
Mr. Les Edye.
- 8.37 p.m.—Duets for two violins:
(a) "Serenade" (Widor).
(b) "Petit Bolero" (Ravins).
Miss Vida Rick and Mr. Eric Haynes.
- 8.45 p.m.—Baritone solo:
"Had a Horse" (Korby).
Mr. Les Edye.
- 8.49 p.m.—Violin solos:
(a) "Menuett" (Mozart).
(b) "Souvenir" (Drdla).
(c) "Chassidic Dance" (Zresser-Frank).
Mr. Eric Hayne.
- 8.58 p.m.—Trios for violin, 'cello and piano:
(a) "Chanson Triste" (Tchaikowsky).
(b) "Polonaise in E Major" (Trousselle).
Miss Otilie Cloake ('cello), Miss Cecile Pritchard (piano), and Mr. Eric Hayne (violin).
- 9.2 p.m.—A Thought for To-night:
"Who Will Harm You."
Will H. Lister.
- 9.3 p.m.—Metropolitan Weather Forecast.
- 9.5 p.m.—Fifteen Minutes' Humour by "Graham and Watty."
- 9.25 p.m.—Octette:
"The Gypsies' Laughing Chorus" (Glover).
Orpheans.
- 9.28 p.m.—Tenor solo:
"She is Far From the Land" (Lambert).
Mr. H. Gilroy.
- 9.31 p.m.—Baritone solo:
"The Last Call" (Sanderson).
Mr. E. Harper.
- 9.34 p.m.—Duet:
"Parigi O Caro" (Verdi).
- 9.37 p.m.—Tenor solo:
"What a Wonderful World it Would Be" (Lohr).
Mr. R. Bruce.
- 9.40 p.m.—Octette:
"O Salutaris" (Voigt).
Orpheans.
- 9.42 p.m.—Pianoforte solo:
"Nocturne" (Paderewski).
Mr. R. Tait.
- 9.46 p.m.—Bass solo:
"The Mistress of the Master" (Phillips).
Mr. J. P. Cornwall.
- 9.50 p.m.—Tenor solo:
"Bianca" (T. Mattie).
Mr. E. W. Muller.
- 9.53 p.m.—Octette:
"The Blue Lagoon" (Nicholls).
Orpheans.
- 9.56 p.m.—Soprano solo:
"When Jack and I Were Children" (Lohr).
Miss Thelma Champion.
- 10.0 p.m.—Baritone solo:
"The Eye Beneath the Busby" (Kemble).
Mr. F. Crane.
- 10.4 p.m.—Tenor solo:
"A Little Love, A Little Kiss."
Mr. G. Williamson.
- 10.7 p.m.—Duet:
"Excelsior" (Balfe).
Messrs. H. Gilroy and F. Crane.
- 10.11 p.m.—Baritone solo:
"If All the Young Maidens" (Lohr).
Mr. T. Muller.
- 10.15 p.m.—Octette:
"Thuringian Volkslied" (Abt).
Orpheans.
- 10.18 p.m.—"Daily Mail": News Service
- 10.20 p.m.—Weather Information.
- 10.23 p.m.—Close Down.

5CL, ADELAIDE.

THURSDAY, 17th MAY, 1928.

MIDDAY SESSION.

12 noon to 2 p.m.

AFTERNOON SESSION.

- 3 p.m.—G.P.O. Chimes.
 3.1 p.m.—Musical numbers from the studio.
 3.45 p.m.—Cheer-Up talk by Rev. C. H. Nield.
 4 p.m.—G.P.O. Chimes.
 4.1 p.m.—Musical numbers from the studio.
 4.57 p.m.—S. C. Ward and Co.'s Stock Exchange Intelligence.
 5 p.m.—G.P.O. Chimes.

EVENING SESSION.

- 6 p.m.—G.P.O. Chimes.
 6.1 p.m.—Children's entertainment.
 6.30 p.m.—Dinner Music from the Studio.
 7 p.m.—G.P.O. Chimes.
 7.1 p.m.—General Market reports by A. W. Sandford and Co., A. E. Hall and Co., Dalgety and Co., S.A. Farmers Co-operative Union, Taylor Bros., Retail Grocers' Association, Interstate Fruit and Produce Market Co. Ltd.
 7.8 p.m.—S. C. Ward and Co.'s Stock Exchange Intelligence.
 7.10 p.m.—Windbag's Sporting Service.
 7.16 p.m.—Extracts from "News Bulletin."
 7.20 p.m.—Slaters (Furnishers) Ltd, talk on "Better Homes."
 7.40 p.m.—A. M. Whittenbury will talk on "Poultry."
 8 p.m.—G.P.O. Chimes.
 8.1 p.m.—Novelty Broadcast.
 8.20 p.m.—Studio Orchestra, selections.
 8.30 p.m.—Richmond Male Quartette in vocal numbers.
 8.35 p.m.—Marcella Berardi, soprano.
 8.41 p.m.—Studio Orchestra.
 8.48 p.m.—Richmond Male Quartette.
 8.54 p.m.—J. Toms, in a whistling novelty.
 9.1 p.m.—Meteorological information, weather forecast.
 9.2 p.m.—Dalgety's Wheat report.
 9.3 p.m.—International News.
 9.10 p.m.—Studio Orchestra.
 9.16 p.m.—Marcella Berardi, soprano.
 9.19 p.m.—Relay from Glenelg, The Maison Dance Band.
 9.35 p.m.—Richmond Male Quartette.
 9.39 p.m.—Studio Orchestra.
 9.44 p.m.—Dick Bailey, comedian.
 9.49 p.m.—Whistling novelty by J. Toms.
 9.53 p.m.—Mostyn Skinner, baritone.
 9.57 p.m.—Dick Bailey, comedian.
 10.1 p.m.—"Advertiser" news service.
 10.8 p.m.—Wireless Shipping Contacts.
 10.10 p.m.—"Windbag's" Sporting Service.
 10.15 p.m.—Mostyn Skinner, baritone.
 10.18 p.m.—Relay from Glenelg, The Maison Dance Band.
 10.55 p.m.—Station announcements, and tomorrow's programme.
 11 p.m.—G.P.O. Chimes and National Anthem.

Friday, May 18th
2FC, SYDNEY.

EARLY MORNING SESSION.

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

MORNING SESSION.

- 10 a.m.—"Big Ben" and announcements.
 10.5 a.m.—Studio Music.
 10.15 a.m.—"Sydney Morning Herald" news service.
 10.30 a.m.—Studio Music.
 10.35 a.m.—A Reading.
 10.45 a.m.—Studio Music.
 11 a.m.—"Big Ben." Studio Music.
 11.5 a.m.—A.P.A. and Reuter's Cable Services.
 11.10 a.m.—Studio Music.
 11.15 a.m.—A talk on home cooking and recipes by Miss Ruth Furst.
 11.30 a.m.—Close down.

MIDDAY SESSION.

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

AFTERNOON SESSION.

- 3 p.m.—"Big Ben" and programme announcements.
 3.5 p.m.—Studio music.
 3.15 p.m.—Madame Evelyn Grieg. The art of listening to music.
 Talk No. 4. "Listening to an Orchestra."
 10.15 a.m.—"Sydney Morning Herald" news service.
 3.30 p.m.—Margaret Hunt, soprano:
 "The Flutes of Arcady" (William James).
 3.35 p.m.—Ewart Chapple, organ solo.
 3.40 p.m.—Aldyth Hern, soprano:
 "Sing Joyous Bird" (Montague Phillips).
 3.45 p.m.—Cliff Hanney, violinist:
 "Chant" (Cameron-White).
 3.50 p.m.—Phyllis Broadbent, soprano:
 "Do you know my Garden" (Haydn Wood).
 3.55 p.m.—Popular records.
 4.5 p.m.—Margaret Hunt, soprano:
 "Fairy Cradles" (Molly Carew).
 4.10 p.m.—Cliff Hanney, violinist:
 "Berceuse" (Faure).
 4.15 p.m.—Aldyth Hern, soprano:
 "April is a Lady."
 4.20 p.m.—Ewart Chapple, Organ solo.
 4.25 p.m.—Cliff Hanney, violinist:
 "Orientale" (Cesar-Cui).
 4.30 p.m.—Studio music.
 4.40 p.m.—Cliff Hanney, violinist:
 "Polichinelle Serenade" (Kreisler).
 4.45 p.m.—Stock Exchange, third call.
 4.47 p.m.—Phyllis Broadbent, soprano:
 "Sweet Lady Moll" (Montague Phillips).
 4.50 p.m.—Studio music.
 5 p.m.—"Big Ben." Close down.

EARLY EVENING SESSION.

- 5.40 p.m.—The chimes of 2FC.
 5.45 p.m.—The "Hello Man" talks to the children.
 6.25 p.m.—Children's Music.
 6.30 p.m.—Late sporting news, told by the 2FC Racing Commissioner.
 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.
 6.47 p.m.—Weather and shipping intelligence.
 6.50 p.m.—Studio talk.
 7 p.m.—Dinner music.
 7.30 p.m.—Late "Evening News" news service.



Soft Collars

Once upon a time the gulf between Capital and Labor was represented by the difference between a stiff collar and moleskin pants tied below the knees. Some extremists even suspected the hand of Mammon in the popular ditty which began:

"If you don't wear a collar and a tie,
 "You won't go to Heaven when you die."

The writer of that jingle was an ass. If anything is calculated to take the starch out of a man or a collar it is "shuffling off this mortal coil."

Now that four men out of five wear soft collars, and the fifth—myself—is merely concealing an elongated neck, the only way of knowing a watersider from a bank manager is the fact that one usually has his boots half soled and the latter is presumably whole souled!

Personally, I regard a stiff collar as a perpetual apology for a boil on the neck.

Some day I will bare my throat to the breeze and startle the world with an imitation of a giraffe in trousers. Meanwhile, for the sake of my job and my family peace, I must continue to go through life like a newly white-washed "silent cop."

Worse still, I am not able to bury myself in the soft radio music distilled from the soul of a magic Burgess Battery, bought, of course, from the New System folk at 280 Castle-reagh Street, Sydney. Here is the blissful talk I heard yesterday:—

"Our white collars keep their starch and stand up on the hottest day. They are the badge of honor and the circlet of courtesy and civilisation."

Ugh! I must have tuned in on the advertisement hour!

NIGHT SESSION.

VOCAL AND INSTRUMENTAL.

- 7.40 p.m.—Programme announcements.
 7.45 p.m.—W. F. Kay in continuation of his series of theatrical talks will deal this evening with George Musgrove.
 8 p.m.—“Big Ben.”
 An act from the Tivoli Theatre.
 8.15 p.m.—From the Studio:
 Virginia Bassetti, contralto.
 8.23 p.m.—Vladimir Elin, Russian baritone.
 8.33 p.m.—Lionel Lawson, violinist.
 8.41 p.m.—Goodie Reeve:
 Behind the Scenes at Hollywood.
 8.56 p.m.—Reginald Hayward, baritone:
 (a) “Mountain Lovers” (Squire).
 (b) “My Prayer” (Squire).
 9.4 p.m.—Late weather forecast.
 9.5 p.m.—From the Tivoli Theatre:
 Novelty Act.
 9.20 p.m.—From the Studio:
 Ewart Chapple, pianoforte solo.
 9.28 p.m.—Virginia Bassetti, contralto.
 9.36 p.m.—Lionel Lawson, violinist.
 9.44 p.m.—Vladimir Elin, Russian baritone.
 9.54 p.m.—Rev. F. H. Raward will continue his series of talks, “Let’s Go Round the World.”
 10.10 p.m.—Reginald Hayward, baritone:
 (a) “Vale” (Kennedy Russell).
 (b) “Praise” (Haydn Wood).
 10.18 p.m.—Ewart Chapple:
 Pianoforte solos.
 10.28 p.m.—Late weather forecast.
 10.30 p.m.—From the Ambassadors. The Ambassadors’ Dance Orchestra, conductor, Al Hammet.
 10.57 p.m.—From the Studio:
 Late news and to-morrow’s programme.
 11 p.m.—“Big Ben.”
 The Ambassadors’ Dance Orchestra, conductor, Al Hammet.
 11.45 p.m.—National Anthem. Close down.

3LO, MELBOURNE.

FRIDAY, 18th MAY, 1928.

EARLY MORNING SESSION.

- 7.15 a.m.—Morning Melodies.
 7.20 a.m.—PHYSICAL CULTURE EXERCISES (to music).
 7.27 a.m.—Morning Melodies.
 7.33 a.m.—Forecast for all States; Mails.
 7.40 a.m.—NEWS.
 8.0 a.m.—Melbourne Observatory Time Signal.
 8.1 a.m.—Morning Melodies.
 8.5 a.m.—NEWS. Sporting Information; Shipping; Stock Exchange Fluctuations.
 8.13 a.m.—Morning Melodies.
 8.15 a.m.—Close Down.
 10.0 a.m.—Transmission from Agricultural Show Ground, Flemington:
 35th Annual Conference of the Australasian Butter and Cheese Factories’ Association. Discussion on the basis of Cream Payments—Butter Fat versus Commercial Butter.”
 8LO’s Culinary Counsels on How to Create Creature Comforts with a Minimum of Cost.

CHEESE STRAWS.

- 11.0 a.m.—
 3oz. flour.
 2oz. cheese.
 1oz. butter.
 Cayenne.
 Salt.
 1 egg.
 Squeeze lemon juice.
 METHOD: (1) Sift flour and salt. (2) Rub in butter and beat up egg. (3) Add cheese, cayenne and lemon juice. (4) Mix all stiffly with egg. (5) Turn on to floured board, knead slightly and roll out thin. (6) Have ready warm greased oven-sheet. (7) Cut cheese mixture into strips and rings. (8) Bake in moderate oven 7 to 10 minutes. (9) Do not let them brown at all. (10) When cold put 4 or 5 strips in each ring and serve on dainty d’oyley on small plate at end of dinner.

AIDS TO SUCCESS IN COOKING
CHARACTERISTICS OF GOOD MEAT.

The relative economy of one joint to another is in the proportion of lean to fat tissue, and both to the weight of bone.

Lamb or Veal.—There is not so much nutriment in these as in the more mature meats—still they make an agreeable change. Sucking pig is exceedingly rich and delicate in flavor. Fresh Pork is much fatter than, and not so nourishing as, an equal quantity of beef or mutton.

- 11.5 a.m.—J. HOWLETT ROSS:
 “Mark Twain on Babies.”
 11.20 a.m.—Musical Interlude.
 11.25 a.m.—“AU FAIT.”
 “Shopping Abroad.”
 11.40 a.m.—Musical Interlude.
 11.45 a.m.—MRS. M. CALLAWAY MAHOOD:
 The use and arrangement of Flowers.

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:
 “Rise of Rosie.”
 12.30 p.m.—OLIVER PEACOCK, Baritone:
 “I’m a Wantin’ You” (Fowler).
 “Sylvia” (Oley Speaks).
 12.37 p.m.—Stock Exchange Information.
 12.40 p.m.—DOROTHY ROXBURGH, Viola:
 “Scherzo from ‘Cello Sonata, Op. 69.”
 12.47 p.m.—RUPERT HAZELL AND ELSIE DAY:
 “Harmonylarity.”
 1.0 p.m.—Melbourne Observatory Time Signal.
 1.1 p.m.—THE GYPSY PLAYERS:
 Trio, “Who Knows” (Ball).
 Irish Air from County Derry (Fisher).
 1.10 p.m.—Meteorological Information; Weather Forecast and Rainfall for Victoria, Tasmania, South Australia and New South Wales; Ocean Forecast; River Reports; Stock Exchange Information.
 1.17 p.m.—HELGA BRENNECKE, ‘Cello:
 “Largo” (Chopin).
 “Priore” (Squire).
 1.24 p.m.—OLIVER PEACOCK, Baritone:
 “Elegie” (Massenet).
 “The Garden of Yesterday” (Kahn).
 1.31 p.m.—THE GYPSY PLAYERS:
 “Scenes of Childhood” (Holz).
 1.40 p.m.—Close Down.

AFTERNOON SESSION.

- 2.15 p.m.—THE STATION ORCHESTRA:
 Selection, “The Girl Friend” (Rodgers).
 2.25 p.m.—Announcements.
 2.30 p.m.—ERNEST ORAM AND THE TIVOLI THEATRE ORCHESTRA: Part 1 OF TIVOLI PROGRAMME (by permission J. C. Williamson, Tivoli Vaudeville Pty., Ltd.).

FROM THE STUDIO.

- 3.30 p.m.—FRANCES FRASER:
 “Travels With Gulliver.”
 Dean Swift has made Gulliver so real to us that we almost think of him as an actual traveller instead of the creation of a fertile brain. Swift’s genius shows itself in this deadly satire against the shams of the world, yet the telling of it is so direct that children can regard it as a fairy tale.
 3.45 p.m.—THE STATION ORCHESTRA:
 Selection, “The Pirates of Penzance.”
 3.55 p.m.—MINA HESELEVA, Soprano:
 “Ave Maria,” with Violin Obligato by Chas. Taylor (Gounod).
 “The Star” (Rogers).
 4.2 p.m.—WILL PAGE, Xylophone Solo:
 “Sparks.”
 4.7 p.m.—THE STATION ORCHESTRA:
 “Festival Dance—Valse of the Hours.”
 “Czardas from the Ballet Coppelia” (Delibes).

ORGAN RECITAL.

- 4.15 p.m.—C. E. MONTEATH, transmitted from St. Peter’s Church, Eastern Hill.
 Fantasia in G Minor (J. S. Bach).
 “Evening Prayer” (Hansel and Gretel), (Humperinck).
 “Prelude in C sharp minor” (Rachmaninoff).

FROM THE STUDIO.

- 4.35 p.m.—MINA HESELEVA, Soprano:
 “Theme and Variation,” with Flute Obligato by J. Barrielle (Proch).
 “Desire” (Chopin).
 4.42 p.m.—Special Weather Report from Adelaide for Mildura district.
 4.43 p.m.—THE GYPSY PLAYERS:
 Selection, “Iolanthe.”
 Selected.

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.—CAPT. 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” will tell you a story.

NEWS AND MARKET REPORTS.

- 7.0 p.m.—Official Report of Newmarket Stock Sales by the Associated Stock and Station Agents, Bourke Street, Melbourne.
 7.5 p.m.—“Herald” News Service; Weather Synopsis; Shipping Movements.
 7.12 p.m.—Stock Exchange Information.
 7.17 p.m.—Fish Market Reports by J. R. Borrett, Ltd.; Rabbit Prices.
 7.19 p.m.—River Reports.
 7.21 p.m.—Market Reports by the Victorian Producers’ Co-operative Co., Ltd.; Poultry, Grain, Hay, Straw, Jute, Dairy Produce, Potatoes, and Onions; Market Reports of Fruit by the Victorian Fruiterers’ Association, Retail Prices; Wholesale Prices of Fruit by the Wholesale Fruit Merchants’ Association; Citrus Fruits. Results of Public School Championships.

NIGHT SESSION.

- 7.30 p.m.—Under the Auspices of the Department of Agriculture:
 S. G. HARRIS, Senior Potato Inspector, will speak on:
 “Potato Grading.”
 7.45 p.m.—C. J. Williams will talk on:
 “To-morrow’s Stadium Event.”
 7.55 p.m.—COLLINGWOOD CITIZENS’ BAND:
 March, “Knellerhall.”
 Overture, “Light Cavalry.”
 8.5 p.m.—GORDON JAMES, Baritone:
 “The Song of Mephistopheles—The Song of the Flea” (Massorgsky).
 “Boat Song” (Harriet Ware).
 8.11 p.m.—Under the auspices of the League of Nations—Good-will messages will be broadcast.
 8.12 p.m.—H. K. LOVE:
 “Technicalities.”
 Mr. Love will be glad to attend to your wireless difficulties, and we ask you to write to him for any information you may require.”
 8.22 p.m.—COLLINGWOOD CITIZENS’ BAND:
 Selection, “Vocacio.”

OUT OF THE PAST.

- 8.30 p.m.—To-day is the anniversary of the Relief of Mafeking in 1900 by Col. Mahon, after holding out since October, 1899, against the Boers.

CAMP-FIRE CONCERT COMPETITION.

Saturday, May 19

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 p.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 p.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 SESSION.

- 12 noon.—"Big Ben" and announcements.
 12.2 p.m.—Stock Exchange information.
 12.3 p.m.—Studio Music.
 12.10 p.m.—"Sydney Morning Herald" summary.
 12.15 p.m.—Rugby wireless news.
 12.20 p.m.—Studio Music.
 1 p.m.—"Big Ben." Weather intelligence.
 1.3 p.m.—"Evening News" midday news service.
 1.15 p.m.—Studio Music.
 2 p.m.—"Big Ben."

FROM RANDWICK RACECOURSE.

- A description of events in the running of the TATTSALL'S CLUB CUP MEETING at Randwick will be described by the 2FC Racing Commissioner.
 During racing intervals the following musical items will be given from the studio:
 The "SMART SET" INSTRUMENTAL TRIO, popular numbers. Nancye McGilchrist, violinist; Peggy Shaw, soubrette.
 (a) "I'll be lonely" (Woods).
 (b) "The song is ended" (Berlin).
 (c) "Breeze" (Goodwin and Hanley).
 (d) "Together we live" (Berlin).
 4.45 p.m.—From the Studio: Complete sporting resume.
 5 p.m.—"Big Ben." Close down.

EARLY EVENING SESSION.

- 5.40 p.m.—The chimes of 2FC.
 5.45 p.m.—The "Hello Man" talks to the children.
 6.45 p.m.—Weather intelligence, shipping, Stock Exchange and Rugby wireless news.
 6.50 p.m.—Studio talk.
 7 p.m.—"Big Ben." Dinner music.
 7.25 p.m.—Late sporting information.
 7.35 p.m.—Late "Evening News" news service.

2 p.m.—CONCERT PROGRAMME BY THE ALBERT PARK SEA SCOUTS.

GETTING UNDER WAY IN AN OLD-TIME SHIP.

8 Bells. Salute the Flag.

Crew wanted to man the good ship 3LO.

1 Bell. Master Reads Articles—All Aboard. Man the Capstan.

Anchor Shanty: "We're Homeward Bound." Order—Set course—Full and by.

Hoist Fore Topsail.

Shanty: "Bound for Rio Grande."

2 Bells. Order. Hoist Main Topsail.

Shanty: "Blow, Boys, Blow."

3 Bells—Hoist Mainsail.

Shanty: "In Amsterdam."

Also Sweat up Shanty, "Haul Away Joe." DOG WATCH CONCERT.

Four Bells.

Violin Solo.

"Sons of the Sea and Chorus."

Recitation.

Mouth Organ Solo:

"Heligoland."

"The Cooks Yarn with Chief Officer."

Five Bells.

Land Ahead.

Back Your Main Yard.

Shanty, "Walk Away."

"Hic Hoc and Up She Rises."

Six Bells.

Crew Up Aloft and Below.

Seven Bells.

"Good Night, Ladies."

All Ashore.

God Save the King.

Commissioner: Thomson Fowler.

Accompanist: Mrs. Fowler.

3.57 p.m.—COLLINGWOOD CITIZENS' BAND:

Intermezzo, "Cavallera Rusticana."

Barcarolle, "Tales of Hoffman."

9.7 p.m.—GORDON JAMES, Baritone:

"The Pauper's Drove" (Sidney Homer).

"From Inverness to Fell" (Howard Fisher).

9.14 p.m.—COLLINGWOOD CITIZENS' BAND:

March, "The Fighting Brigade."

Novelty, "Sliding Jim."

PIANO RECITAL.

3.20 p.m.—WILLIAM G. JAMES:

1. "Polonaise A Major" (Chopin).

2. "Danse de la Poupee" (Debussy).

3. "First Movement Concerto F Minor" (Arensky).

Second Piano: Miss Fortune.

9.40 p.m.—ERIC WELCH, will speak on:

"To-morrow's Races."

AN ORCHESTRAL CONCERT.

9.50 p.m.—THE STATION ORCHESTRA:

Selection, "The Student Prince."

10.0 p.m.—OLIVER PEACOCK, Baritone:

Request Items.

10.7 p.m.—COLLINGWOOD CITIZENS' BAND:

Fox-trots.

10.17 p.m.—OLIVER PEACOCK, Baritone:

"Pale Moon," with Orchestral Accompaniment.

Selected.

10.24 p.m.—THE STATION ORCHESTRA:

Overture, "Zampa."

10.35 p.m.—NEWS SESSION.

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

"Harmonylarity."

11.0 p.m.—OUR GREAT THOUGHT:

"Laugh and be merry, remember, in olden time,

God made Heaven and Earth for joy He took in a rhyme,

Made them, and filled them full with the strong red wine of His mirth

The splendid joy of the stars; the joy of the earth.

So we must laugh and drink from the deep blue cup of the sky

Join the jubilant song of the great stars sweeping by.

Laugh, and battle, and work, and drink of the wine outpoured,

In the dear green earth the song of the joy of the Lord."

—John Masefield.

LET'S FOOT IT FEATLY.

11.1 p.m.—THE VAGABONDS:

11.40 p.m.—GOD SAVE THE KING.

Slingsby & Coles Ltd.

486 Pitt St., Sydney

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| 5-Valve Portable Receiver | £20/-/- |
| 5-Valve "Henderson" Receiver .. | £19/15/- |
| 3-Valve Supertone Receiver | £11/17/6 |
| 3-Valve Crossley Receiver | £11/5/9 |
| 2-Valve Supertone Receiver | £8/8/9 |
| 2-Valve Crossley Receiver | £8/6/9 |

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Only the Best Mica is used as Di-electric.

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NIGHT SESSION.
RUSSIAN ORCHESTRA.

- 7.40 p.m.—Programme announcements.
 7.45 p.m.—Captain Fred Aarons will give his final talk of the series, "Roaming the Papua." Subject: Chilian Sidelights.
 8 p.m.—"Big Ben."
 Sydney Calland, baritone.
 8.8 p.m.—Eileen Boyd, contralto.
 8.16 p.m.—The Ballalaika Orchestra. A combination of 20 players playing the Russian national instrument.
 8.26 p.m.—Gwladys Fimister, soprano.
 8.34 p.m.—Frank McEachern, bass:
 (a) "Cheerily, Heo, Ho" (Phillips).
 (b) "Out on the Deep" (Lohr).
 8.42 p.m.—The Ballalaika Orchestra.
 8.52 p.m.—Sydney Calland, baritone.
 9 p.m.—"Big Ben." Late weather forecast.
 9.1 p.m.—From the Ambassadors. The Ambassadors' Dance Orchestra conductor, Al Hammet.
 9.10 p.m.—Eileen Boyd, contralto.
 9.18 p.m.—John Dellore, tenor:
 (a) "When the stars were brightly shining" (Puccini).
 (b) "Serenade" (Schubert).
 9.26 p.m.—The Ballalaika Orchestra.
 9.36 p.m.—Charles Lawrence, entertainer.
 9.44 p.m.—Gwladys Fimister, soprano.
 9.52 p.m.—From the Ambassadors. The Ambassadors' Dance Orchestra.
 10 p.m.—"Big Ben." Frank McEachern, bass:
 "Ould Plaid Shawl" (Haynes).
 (b) "The Living God" (O'Hara).
 10.8 p.m.—From the Studio:
 The Ballalaika Orchestra.
 10.18 p.m.—John Dellore, tenor:
 (a) "Sylvain" (Sindin).
 (b) "Fair House of Joy" (Quilter).
 10.26 p.m.—The Ballalaika Orchestra.
 10.32 p.m.—Late weather forecast.
 10.33 p.m.—From the Ambassadors. The Ambassadors' Dance Orchestra.
 10.57 p.m.—From the Studio:
 To-morrow's programme and late news.
 11 p.m.—"Big Ben."
 The Ambassadors' Dance Orchestra.
 11.45 p.m.—National Anthem. Close down.

3LO, MELBOURNE

SATURDAY, 19th MAY, 1928.

EARLY MORNING SESSION.

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

MORNING SESSION.

- 11 a.m.—THE STATION ORCHESTRA:
 "Hits from The Girl Friend."
 11.10 a.m.—OLIVER PEACOCK, Baritone:
 "I Live for You" (Jack Thompson).
 "Colinette" (Coningsby Clarke).
 11.17 a.m.—WILL PAGE, Xylophone Solo:
 "Two Imps" (Alford).
 11.22 a.m.—THE STATION ORCHESTRA:
 Selection: "The Pirates of Penzance" (Sullivan).
 11.32 a.m.—MINA HESELEVA, Soprano:
 "Angels Guard Thee," with Cello Obligato, by Tasma Tiernan (Godard).
 Aria, "Huguenots" (Meyerbeer).
 11.39 a.m.—THE STATION ORCHESTRA:
 Kamenroi Ostrow (Rubenstein).
 11.50 a.m.—OLIVER PEACOCK, Baritone:
 "The Little Silver Ring" (Chaminade).
 "You and I" (My Brahe).
 11.57 a.m.—THE GYPSY PLAYERS:
 Second New Sullivan Selection.
 12 noon.—Melbourne Observatory Time Signal.

MIDDAY SESSION.

- Metal prices received by the Australian Mines and Metals Association from the London Stock Exchange this day. British Official Wireless news from Rugby. Reuters' and The Australian Press Association cables. "Argus" news service.
 12.20 p.m.—THE GYPSY PLAYERS:
 "Gypsy Love" (Lehar).
 12.30 p.m.—MINA HESELEVA, Soprano:
 "The Wren"—with violin obligato by Bertha Jurgensen (Benedict).
 "Koo-koo (Arenski).
 12.37 p.m.—Stock Exchange information.
 12.40 p.m.—THE STATION ORCHESTRA.
 Descriptive Fantasia, "Gipsy Life (Chas. Le Thiere).
 12.50 p.m.—RUPERT HAZEL AND ELSIE DAY:
 "Harmonylarity."
 1.2 p.m.—THE GYPSY PLAYERS:
 "Wayside Sketches."
 1.9 p.m.—Meteorological information.
 Weather Forecast and Rainfall for Victoria, Tasmania, South Australia, and New South Wales. Ocean forecast. River reports. Stock Exchange information.
 1.16 p.m.—GORDON JAMES, Baritone:
 "How's My Boy?" (Sydney Homer).
 "Dah's Gwinter be er Lan'slide" (L. Strickland).
 A Negro Sermon.
 1.32 p.m.—THE STATION ORCHESTRA:
 "Dancing Tambourine" (Palla).
 1.35 p.m.—Description of BASEBALL—St. Kilda v. Collingwood, at St. Kilda Football Ground, described by Percy Steel.
 1.45 p.m.—GORDON JAMES, Baritone:
 "Lorraine Lorraine Loree" (Gilbert Spross).
 1.48 p.m.—THE GYPSY PLAYERS:
 "Spanish Gypsy Dance" (Mowrey).
 1.55 p.m.—Description of BASEBALL—St. Kilda v. Collingwood, at St. Kilda Football Ground, by Percy Steel.
 2 p.m.—Description of Kororoit Hurdle, 2 miles, WILLIAMSTOWN RACES, by Eric Welch.
 2.5 p.m.—Close down.

AFTERNOON SESSION.

- 2.15 p.m.—HARRY SHUGG'S BAND:
 Selection, "Waltzes."
 2.30 p.m.—Description of BASEBALL—St. Kilda v. Collingwood, at St. Kilda Football Ground, by Percy Steel.
 2.35 p.m.—Description of Juvenile Handicap, 6 furlongs, WILLIAMSTOWN RACES, by Eric Welch.
 2.40 p.m.—HARRY SHUGG'S BAND:
 Selection, "Fox Trots."
 2.50 p.m.—Description of FOOTBALL, Geelong v. South Melbourne, at Geelong, by Rod McGregor.
 3 p.m.—Opening of the New Hall, Presbyterian Church Settlement, Napier-street Fitzroy, by His Excellency the Governor and the Rt. Reverend the Moderator of the Presbyterian Church of Victoria and the Mayor and Councillors of Fitzroy.
 3.15 p.m.—Result of Bay View Handicap, 1¼ miles, WILLIAMSTOWN RACES, run at 3.10 p.m. Description of FOOTBALL: Geelong v. South Melbourne, at Geelong, by Rod McGregor.
 3.30 p.m.—HARRY SHUGG'S BAND:
 Selection, "Marches."
 3.42 p.m.—Description of Autumn Steeplechase, 2 miles, WILLIAMSTOWN RACES, by Eric Welch.
 3.50 p.m.—Results of Quarter Time League and Association Football Matches. Description of FOOTBALL—Geelong v. South Melbourne, at Geelong, by Rod McGregor.
 4.5 p.m.—HARRY SHUGG'S BAND:
 Selection, "Waltzes."
 4.12 p.m.—Description of Gellibrand Handicap, 1 mile, WILLIAMSTOWN RACES, by Eric Welch.
 4.20 p.m.—Result of Half-Time League and Association Football Matches.
 4.22 p.m.—HARRY SHUGG'S BAND:
 Selection, "Comic Opera."
 4.35 p.m.—Description of FOOTBALL: Geelong v. South Melbourne, at Geelong, by Rod McGregor.
 4.42 p.m.—Description of Beach Welter, 1 mile, WILLIAMSTOWN RACES, by Eric Welch.

- 4.50 p.m.—HARRY SHUGG'S BAND:
 Selection, "The Latest Catches."
 5 p.m.—Results of League and Association Football Threequarter Time. Description of FOOTBALL: Geelong v. South Melbourne, at Geelong, by Rod McGregor.
 5.15 p.m.—"Herald" news service. Stock Exchange information.
 5.25 p.m.—Close down.
 5.50 p.m.—Final Scores of League and Association Football. Sporting results. The results of Wangaratta Turf Club Races will be given as they come to hand.

EVENING SESSION.

- 6 p.m.—Answers to Letters and Birthday Greetings by "LITTLE MISS KOOKABURRA."
 6.20 p.m.—Musical interlude.
 6.25 p.m.—"LITTLE MISS KOOKABURRA" will give another instalment of—"Pickles and Prowl."
 7 p.m.—Sporting results. Results of Public School Tennis Championships.
 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, Jit, 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.—E. E. PESCOFF, will speak on "Australian Tan, Dye, and Oil Plants."
 7.45 p.m.—DR. J. A. LEACH will speak on "The Seven Small Grass Parrots."
 OUT OF THE PAST.
 8 p.m.—This day ten years ago was the last air raid on England. And it is also the anniversary of the discovery of the Burra copper mine, in South Australia.
 8.1 p.m.—CLARENCE WEBER will speak on: "Breathing."

A MAKER OF HISTORY.

- 8.15 p.m.—To-day is the Anniversary of the Death of "The Grand Old Man"—William Gladstone, who was four times Prime Minister of England. He died in 1898, aged 83 years. Birthday Greetings and Programme announcements.

CAMP FIRE CONCERT COMPETITION.

- 8.16 p.m.—1st ELSTERNWICK TROOP: (St. Clemerts').
 1. Troop Song.
 2. "About Ourselves" Chorus
 3. Recitation, "Hello!" P. L. Hayter
 4. "Alouette" Chorus
 5. Talk by A.S.M. McVilly—"The Hobo Animals."
 6. "Johnny was a Parlor Scout"—Chorus.
 7. "Mary Had a Little Lamb"—Recitation (humorous).
 8. "Birds in the Wilderness."
 9. "Troop Yell."
 Nos. 1, 2 and 9 are original—composed by members of the troop.

FROM THE STADIUM.

- 8.40 p.m.—ERIC WELCH will give a description of to-night's Stadium event.

FROM THE STUDIO.

- 10.30 p.m.—THE STATION ORCHESTRA:
 Valse Caprice (Rubenstein).
 Andantino (Lemare).
 10.37 p.m.—ERNEST SAGE, Baritone:
 "The Trumpeter" (Dix).
 "A Ballad of Gretna Green" (May Brahe).
 10.44 p.m.—Late Sporting Results. Results of Public School Tennis Championships.
 10.54 p.m.—ERNEST SAGE, Baritone:
 "Mountain Lovers" (Squire).
 "Bonnie Dundee" (Lady John Douglas Scott).
 11 p.m.—OUR GREAT THOUGHT:
 "A man is by nothing so much himself as by his temper, and by the character of his passions and affections. If he loses what is manly and worthy in these, he is as much lost to himself as when he loses his memory and understanding."—Shaftesbury.
 ON THE LIGHT FANTASTIC.
 11.1 p.m.—THE VAGABONDS.
 11.40 p.m.—GOD SAVE THE KING.

Readers' Queries Answered Here

A.T. (BONDI): The Philips A425 valve is a high impedance valve for R.F. amplification. It will be found suitable for use in two or three stages of R.F. amplification and is quite easily neutralised. The 1mfd condenser you refer to in the Browning Drake circuit is a by-pass condenser to allow smoother operation of the B battery.

CURIOUS (KOGARAH): There is no reason why the crystal receiver circuit you have enclosed should not function satisfactorily. Provided there is no open circuit, and the telephones and crystal detector are in order, you should obtain fairly selective results.

DISAPPOINTED (GIRN): Because you have been supplied with low instead of a high ratio interval transformer it is no reason why your valves do not "light up." Remember also that there is no visible glow from the Philips valves you are using. You will find this mentioned with the valve literature. Check over the wiring of your receiver before condemning it, or if you are not sufficiently conversant, call in someone who understands wiring and circuit diagrams.

G.H. (ENFIELD): The only procedure with your leaky celluloid case accumulator is to drain it and remove the plates. You may patch the leak with sheet celluloid and amyl acetate.

H.J. (DUBBO): If you have purchased a "Radiokes" Browning Drake Kit I certainly advise you to stick to the circuit diagram supplied.

R.M.B. HAMILTON: On no account must you use ordinary tap water to flush your accumulator out with. Pure distilled water is the only medium Sulphuric acid does not evaporate—only the distilled water.

A.E.W. (PENRITH): Apparently you have insufficient plate voltage on the detector valve of your Perfection Five. Try increasing this—also the R.F. plate voltage.

W.J.S. (CASINO): You cannot under any circumstances connect your two 3 valve sets together with the idea of using them as a six valve instrument. You may as well strip the two and build one set out of them. The crackling noise you hear on your L3 Udisco set may be due to a faulty interval transformer. This would undoubtedly produce distortion.

Y.W.R. (MORUYA): Your query has been previously answered. Try Philips A425—A415 A415 and B406 for your Browning Drake receiver. Alternatively—Osram DEH410, DEL410, DEP410 in the order shown.

D.E.L. 410 LINABURY (SECOND STREET, WESTON): Offers to forward any back number of "W.W." to readers who forward postage.

J.J.G. (NEUTRAL BAY): If you propose to use .00035 condensers in place of .0005 with your Marco Four—increase the turns on the inductance by 8 to 10.

C.E.C. (WAVERLEY): (1) A "B" eliminator is not to be recommended for use in a short wave receiver owing to slight hum on the edge of oscillation—thus impairing telephone reception.

(2) Shielding connected to earth is always a distinct advantage in a short wave receiver provided it is done properly.

(3) A .0003 grid condenser will be suitable.

(4) Try the New Philips B405 valve or the Osram DEP410.

G.E.B. (NEWTOWN): The valves you are using with your Browning Drake receiver are quite suitable for the purpose but use the A425 as R.F. amplifier Perfect neutralisation is of greatest importance in this circuit for inter-State loud speaker reception.

J.K. (NTH. SYDNEY): Two Philips A635 will be good R.F. amplifiers for use in the Peridyne Five.

W.R.M. (GLEN INNES): From your description—I feel more inclined to lay the blame with the garage responsible for charging your accumulator. An accumulator does not require merely charging—but careful attention to specific gravity.

J.C. (NEWTOWN): The Mullard valves you are using with your Neutrodyne should be satisfactory—but two PM3's in the R.F. stages are recommended as being better than the PM4's.

W.M. (LEICHHARDT): The C battery connections submitted are quite in order and I can only presume that you must have been in possession of a faulty battery.

ENQUIRER (NTH. SYDNEY): The Te Ka De 1 valve set is recommended as a powerful receiver for local stations.

B.A.P. (BALLINA): The only solution to the elimination of hum from your lighting circuit is total shielding of the receiver. Even the telephone or loud speaker and battery leads will need to be enclosed in lead sheathed cables—with the sheathing connected to earth.

W.W.S. (DRUMMOYNE): (1) Try loosening the coupling of your aerial circuit.

(2) The valves when howling are in a state of violent oscillation, but this will not injure them.

(3) It does not injure the transformer to switch off by the battery switch alone.

Q.E.D. (WAVELEY): The Screened Coils coincide exactly with the Radiokes Coils. The use of the E terminal is correct. You may or may not find the B eliminator suitable according to the valve used for rectification.

A.Y. (BONDI): Try O. H. O'Brien, Pitt St., Sydney for 1/4 in. Dilecto rod.

M.P. (MAITLAND): Obtain a hard rubber former 1 inch in diameter and 2 inch long. Turn 6 grooves 1/8" deep and 1/8" wide and fill these with 36 D.S.C. wire in one continuous winding. This will make an R.F. choke suitable for your purpose.

F.W. (BEXLEY): Try the "Gloomchaser Five."

J.H. (GUNGAL): The difference in current consumption will be on your A battery only, with an increase of about 8 milliamps.

M.R. (PETERSHAM): Aerial—25 turns—R.F. coil 50, Primary—26 turns, secondary 50 regeneration—30. All 3 inches in diameter.

C.B. (GLEBE): The A435 is a more flexible R.F. amplifier than the PM3.

W.A.P. (ST. PETERS): A good wet re-chargable B battery is the "Exide."

G.F.D. (BEAUDESERT): The circuit of the crystal receiver you enclosed is not by any means selective. Keep the variable condenser across the coil, and connect the lead from the crystal detector to a centre tapping on the coil. Continue to use the aerial tapings.

E.J. (YANDINA Q.): Use the TKD VT126 as a combination R.F. and detector valve.

G.E.W. (CONDOBOLIN): Coil No. 1 of the Radiokes short wave kit covers the lowest band of wavelengths and it is only at certain times of the day and night that you may hear international telephony stations. The condensers you are using are correct. The Mullard PM3 is a better detector than the PM4.

TE KA DE (LAURISTON): When circumstances permit I will publish details of a Neutrodyne using T.K.D. valves.

J.R.D. (HURSTVILLE): See the letter in the issue for April 27th (Safety Valve) describing the use of a midget condenser in the Harkness reflex.

THE NAME DOES NOT ROTATE



The head does not come off.

The slot and nut eliminate soldering.

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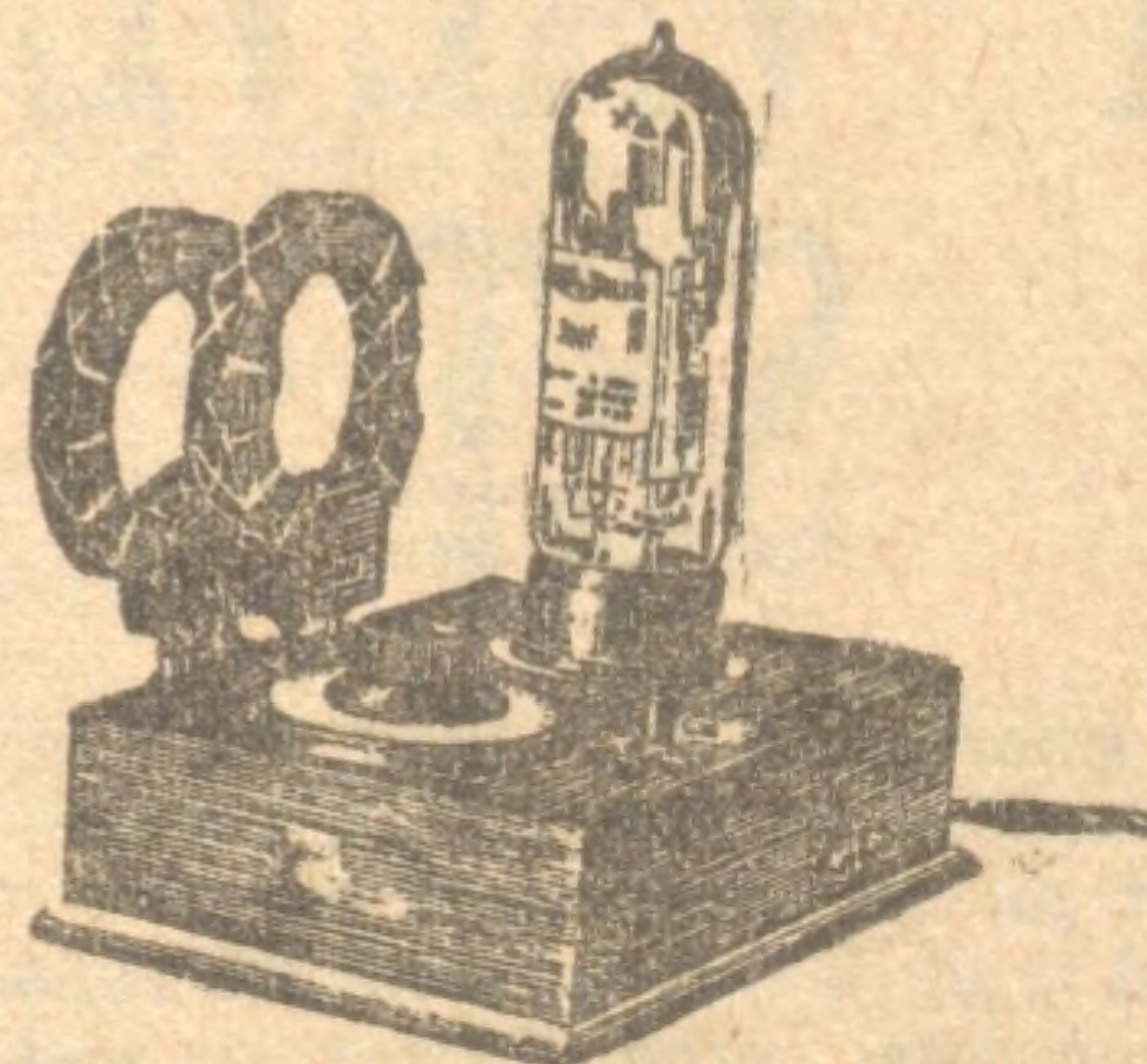
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A further step forward has just been made by Messrs. Home Recreations Ltd. in catering for the needs of Wireless users, and widening the circle of those within whose financial means ownership of a set, and its maintenance is possible.

New Salonola radio models are announced, and though details are not yet available, it is stated that they will be telling examples of the continued progress in construction and reproduction of sound.

The firm has also opened a new department, specialising in wireless accessories which, in order that they may be within the reach of as many as possible, are being sold on time-payment.

This, in many cases, will mean that when a new accessory is needed it will

not be necessary for the owner of the set to wait until he has enough money to make the purchase. He may get the necessary accessory when it is needed, and find the money later, instead of trying to find the money when it is inconvenient or unobtainable, and getting the accessory not at all or too late. An advertisement elsewhere in this issue gives a list of accessories which may be obtained on time-payment terms.

A POTENTIOMETER is a useful device in radio frequency amplification. It is known also as a stabiliser, for it helps to prevent the valve from oscillating. It resembles a rheostat in having a coil of resistance wire as its principal element, but instead of being connected in series it is shunted across the terminals of the "A" battery. There is a variable contact in the middle of the coil as well as the terminal contacts at the two ends. From this middle contact a wire leads to the grid, sometimes by way of the inductance coil. The result is that the grid is made positive and the grid circuit absorbs an appreciable amount of power. The effect is similar to that of a "C" battery used to place a biasing potential on the grid.

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(WIRELESS WEEKLY)

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The story of the years' advance in commercial wireless services, research work, receiver development, and design of wireless parts is splendidly told in the "1928 Guide," in a manner that both the technical and non-technical can appreciate.... The book itself is a remarkably complete record of wireless activities in every field and contains, in countless instances, the answers to questions which often puzzle the radio user. The technical section is remarkably well defined.... It is a book which we, ourselves, find of distinct value for reference purposes, and one which we can recommend to anybody, whether his interest in wireless be superficial or otherwise.

Without direct reference to this work it would be almost impossible for the average lay man to realise the extent to which wireless commercial services in Australia have been developed.... The ramifications of the commercial services which are centred around the Radio Centre at Pennant Hills and the Receiving Centre at La Perouse form a most fascinating subject. The technical section is remarkably defined.

By an intelligent use of the A.W.A. "Radio Guide," the listener who has but a slight knowledge of the technicalities of radio can secure information that will enable him to so "service" his receiver that he will be sure to have it always in reliable working condition, and so will not have any fear of a "silent" night when he invites his best friends to participate in a radio programme having a very special appeal on that particular occasion.

A mass of essential information on wireless is to be found in the 1928 Radio Guide issued by Amalgamated Wireless (Australasia) Ltd.

SYDNEY
SUN
27th
March

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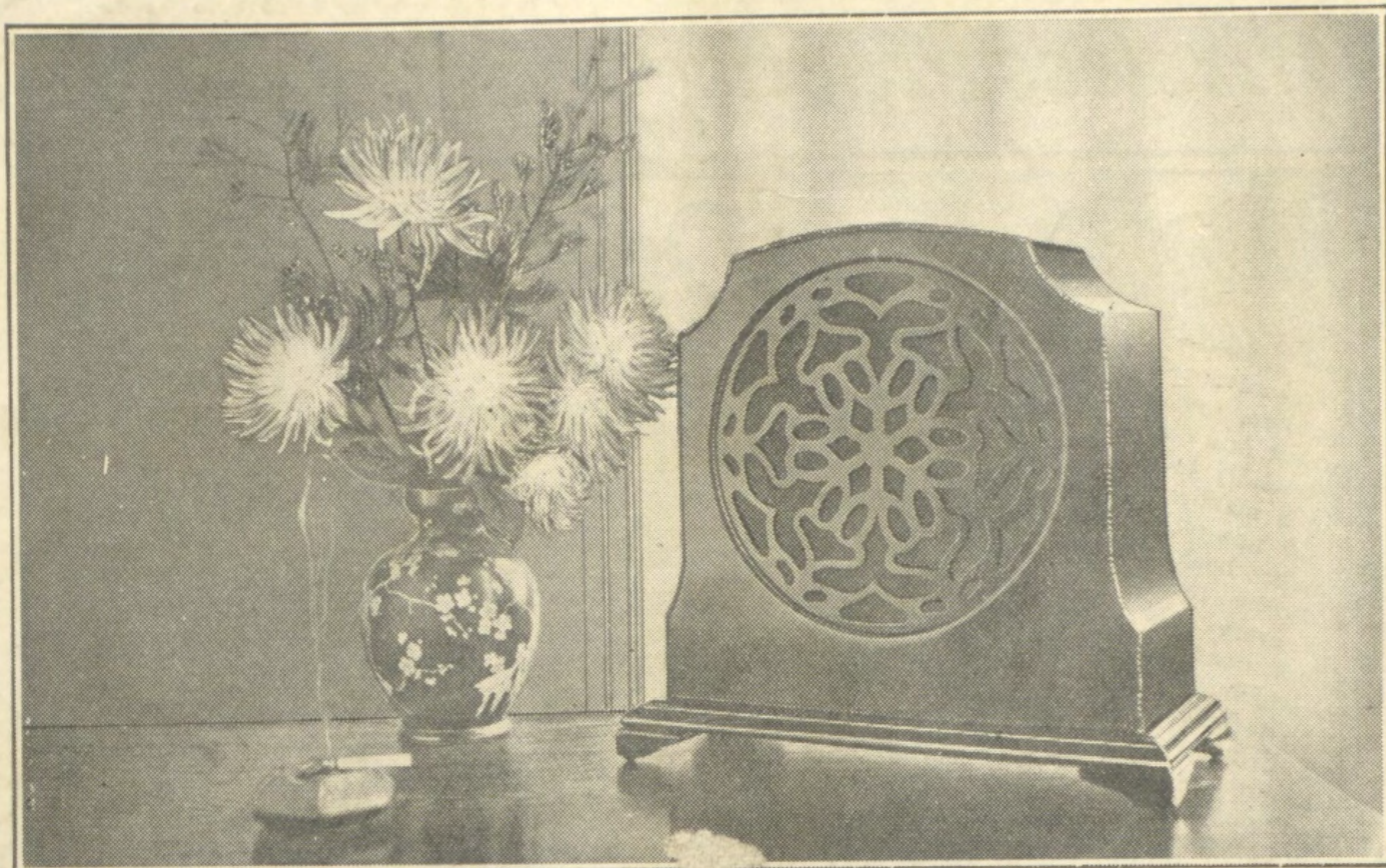
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