

WIRELESS WEEKLY

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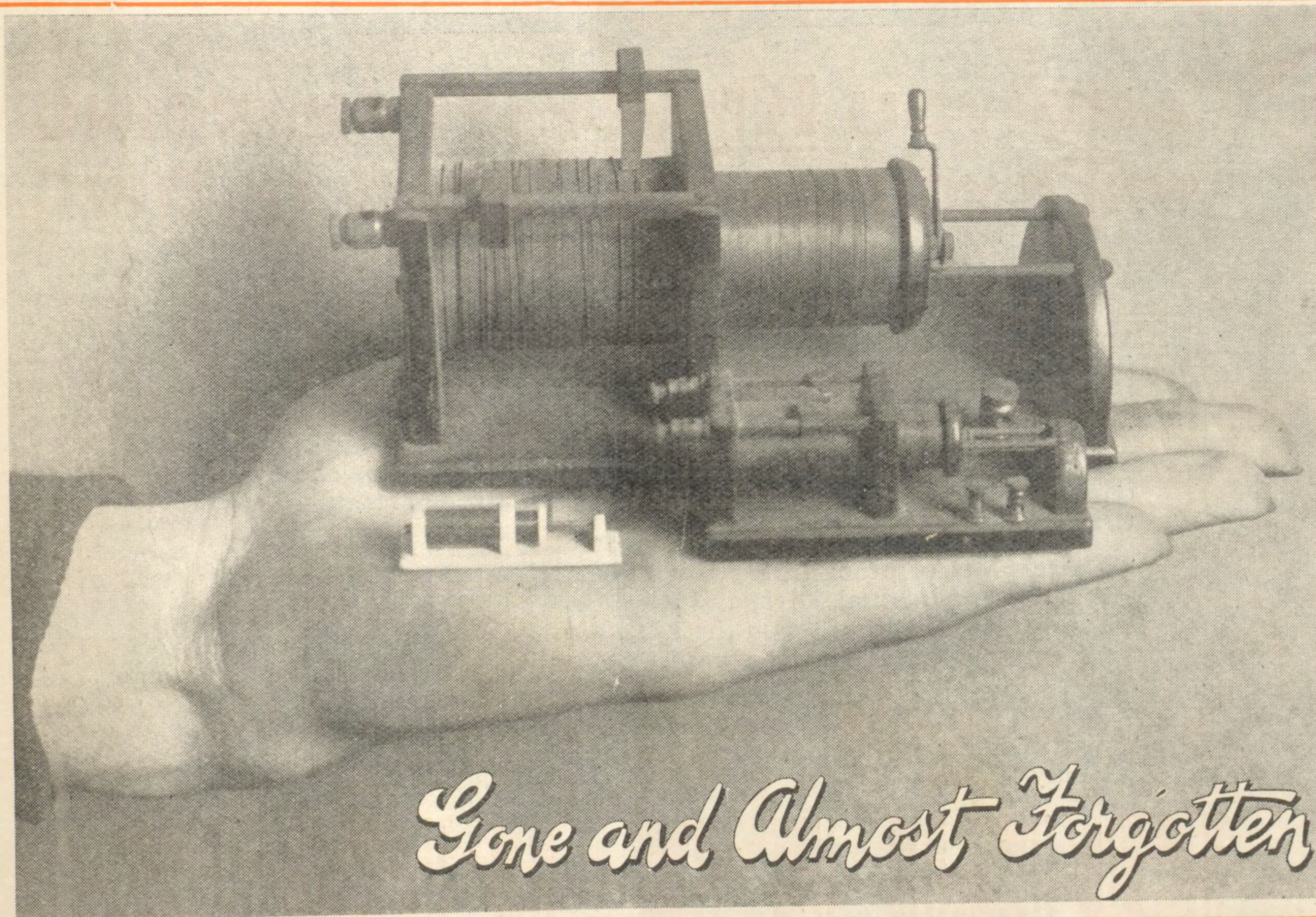
SYDNEY

Broadcast Programmes a Week in advance

VOLUME 12

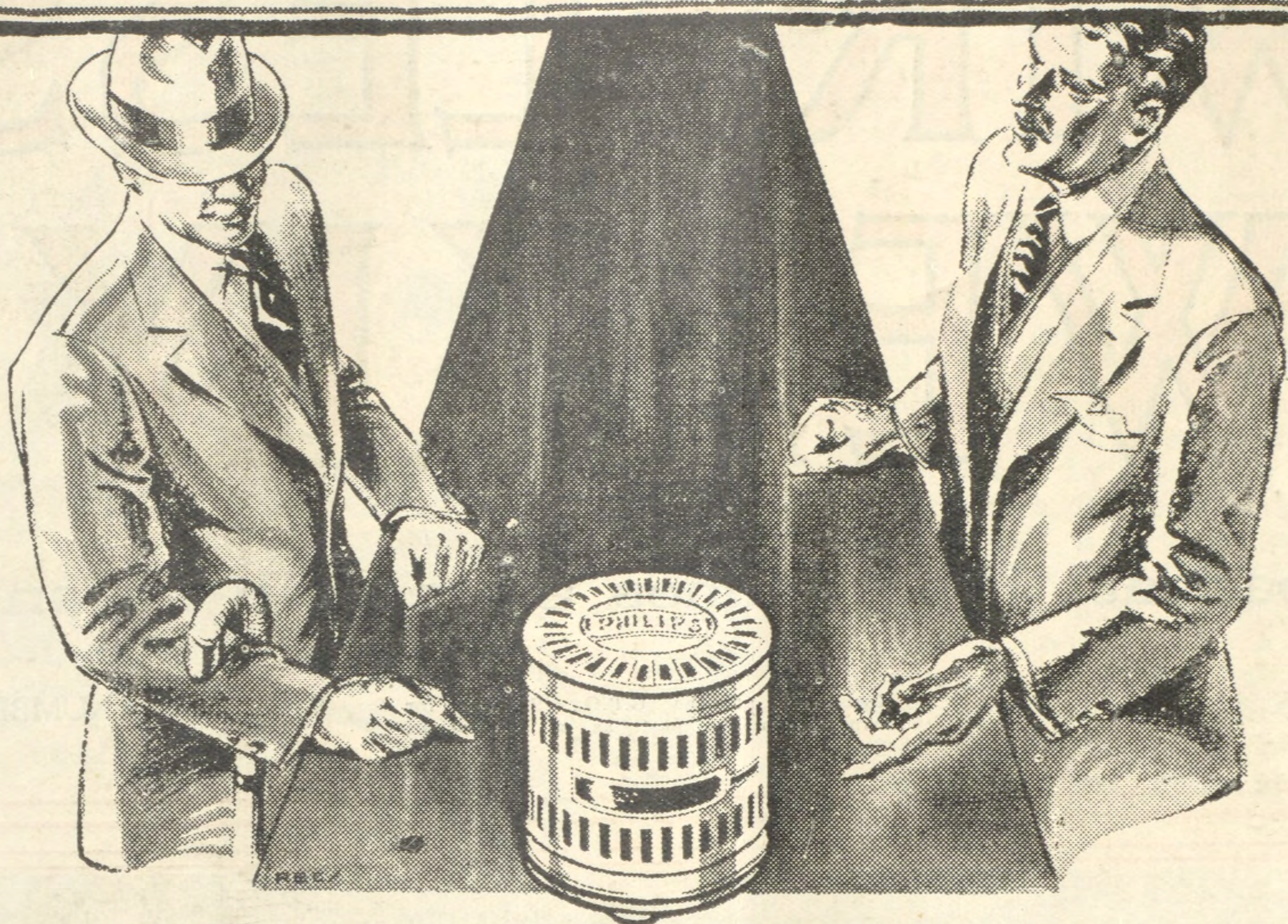
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NUMBER 29



Gone and Almost Forgotten

Friday, November 9, 1928 Price Threepence



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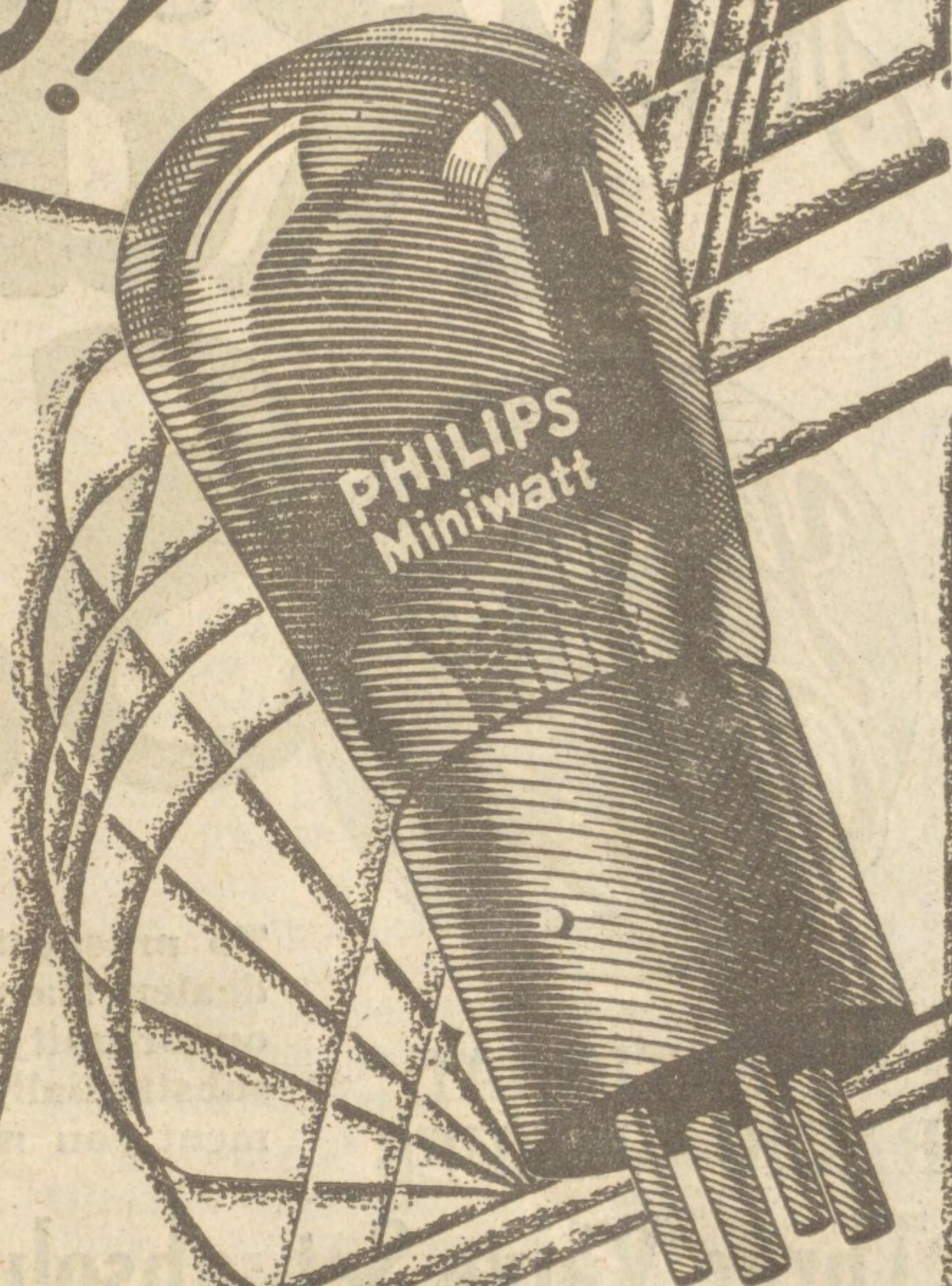
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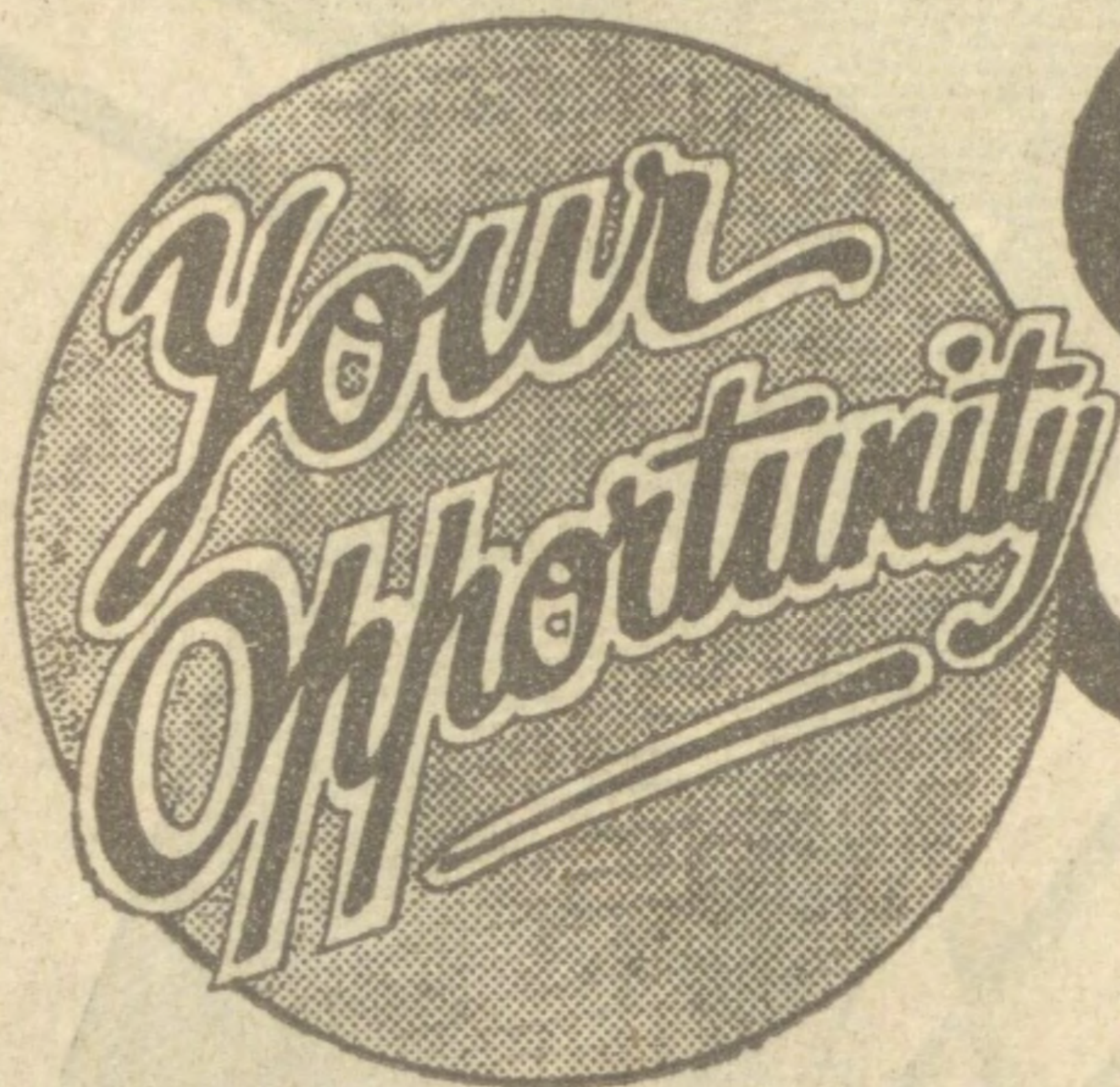
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WIRELESS WEEKLY

VOL. 12. No. 29.

FRIDAY, 9th NOVEMBER, 1923.

"HELLO, HELLO, 2XAF!"

"Hello, Hello, 2XAF"

"Eh! Eh! What's that? Your voice is garbled!"

"Hello 2XAF, Hello 2XAF, that was Mr. Fisk speaking. MacDonald here, 2ME Sydney."

"Eh! Eh! Reckkods for 15 minutes."

SUCH at least was one humorous interlude in the early tests of the "amazing" 'phone conversations between New York and Sydney recently. Most local experimenters must have heard similar brief interludes during the duplex 'phone tests between W2XAF on 32.7 metres and 2ME on 28.5 metres, which so suddenly and so surprisingly ended in a naive adjectival outburst on the part of the daily newspapers.

The transmissions did not, of course, warrant all the expressions of wonder they received, for it is two years since the first two-way 'phone work was held between Sydney and New York or adjacent cities. But conversely the transmissions between 2ME and 2XAF were not unpraiseworthy on this account. In fact, Mr. MacDonald and his staff are due for considerable applause for their hard work. We repeat, their hard work; for the praise for this feat lay not in the novelty of talking with somebody else half way around the world, but in the reliability and clarity of the reception and transmission and the facility of the duplex arrangements. And if we pursue it further we must realise that the clarity and reliability of these tests is due not so much to the engineers as to the vagaries of the short waves.

The remarkably favorable conditions in the short waves has made possible these tests. In two or three months it is fairly safe to say that the present results will have been replaced by imperfect reception and distortion.

It is doubtful if a regular telephone service will ever be maintained between New York and Sydney. The present telephone service across the Atlantic is conducted on high wavelengths and by the use of enormous power. The short waves are immune from many of the disabilities attached to the longer waves, but they also possess unknown characteristics which have not yet been mapped, and, therefore, they cannot be used with absolute certainty.

The work of the Amalgamated Wireless engineers in conducting these recent tests had as its object not so much the immediate possibility of establishing a regular short-wave telephone service between the two continents as the actual mapping of short wave phenomena. Only by regular and constant transmissions over a considerable period will they be able to trace the varying properties of the high frequencies.

This is where the praise for the work accomplished is due. It has required considerable thought, management, research, and experiment to arrive at our present knowledge. It will take a great deal more to arrive at a satisfactory basis for an intercontinental telephony service on the short waves.

Catching Up with the Wireless World.

By R. E. CORDER.



"OH! MY HEART is beating!" sang a young maiden, blithely, to the microphone, at Paling's Concert Hall, during the Eisteddfod "try-outs." One could see her heart was beating; nevertheless, she made a very creditable performance.

IT WAS NOTICED that most singers failed to show to their best advantage when a cadenza was reached. A cadenza, being an exhibition of skill, is one of the points carefully followed by the adjudicator. In such a passage, the accompanying instrument cuts right out, and thus there is no noise which might serve to drown any little mistakes.

ANOTHER POINT which seemed to catch many hard triers was that they slurred a chromatic scale from the second last to the last note, instead of singing these clearly, and making that distinction between the two notes that allows the piece to be finished with style. "Mike-fright" caused one young lady to screw up her music, that it will need to be replaced. The adjudicator was in another room, and listened in with a pair of telephones.

IT HAS BEEN stated that in the endeavor to get unfamiliar numbers, the musical records of the last 40 years have been turned up, and there is no piece anywhere in Australia, or for that matter, in the world, which has not been played from either of the two "A" class stations in Sydney, 2FC and 2BL.

TO COPE WITH THE class of criminal which uses a fast motor boat on Sydney Harbor, the N.S.W. Police Department recently equipped the water police patrol launch with a wireless set, thus greatly increasing its usefulness. The apparatus is used in conjunction with a concealed aerial. The shore transmitter is operated by remote control from police headquarters, Sydney, a distance of some 14 miles from the station at Pennant Hills. The N.S.W. police cars have been equipped with radio for some time.

OUR COVER PICTURE this week shows a trio of ancient variocouplers for the radio museum. All are diminutive in proportions, but the tiny, ivory-cased outfit is the master art object of the three. Every one of them has seen actual service over the radio broadcast band.

A FEW WORD PICTURES: After listening in for a few weeks, one soon learns to distinguish the voices of the radio announcers, and before long wonders what these people look like. Photographs have often been published, but a few word pictures should not be amiss.

MR. ANDERSON, manager of the N.S.W. Broadcasting Co., is of fair build, wears glasses, and is very businesslike. Auntie Gwen (sad to relate) is a modern young Miss, with ginger hair—and a great liking for chocolates and children.

THE HELLO MAN (Mr. Cochrane) of 2FC is tall, rather stout, and has a very straight figure. In disposition (except when speaking to the children via the radio), he is very reserved.

UNCLE BAS (Mr. Basil Kirke) of 2BL, is of medium height, fairly stout, and has a good figure. He is at all times cheerful, and can speak with understanding and knowledge on practically every subject.

THE EIFFEL TOWER transmitter (Paris) is becoming one of the most powerful stations in the world. In accordance with the Washington agreement, the new wavelength of this station will be 1500 metres, and its power 100 kilowatts.

AUSTRIA now claims to be the most progressive country in the world so far as percentage of registered listeners is concerned; 300,000 out of the 6½ millions population are registered radio listeners. Radio manufacturing is also developing rapidly, and exports in radio goods are four times greater than imports.

A NEW COMPANY is being formed in England, under the name "Wireless Pictures, Ltd." The firm will have a capital of £425,000, and business will consist of constructing and selling radio picture receivers.

ON THE H.M.S. "AUSTRALIA," 55 loudspeakers have been fitted in all quarters, in order that a command given by one man in an ordinary speaking voice, may be heard throughout the ship. Hearing the speakers in operation, one is struck by the extraordinary clarity and mass of volume.

THE GOLD RADIO Service, Too-woomba, is now broadcasting a regular schedule. The call sign is 4GR, and the service as follows:—Daily, 12.30 to 1 p.m. (except Saturday). Thursday, 6.45 p.m. to 8 p.m. Friday, special 31.5 metres, 6.45 to 7.30 p.m.; ordinary wave, 8 to 9.30 p.m. Sunday, 11 a.m. to 1 p.m.; 7 p.m. to 9 p.m.

IF THERE is one thing more than another that 3LO is praised for, it is that it takes particular care to avoid the occurrence of delays between items or announcements in the programmes. It is interesting to note in this respect that there recently appeared in an English journal some very pertinent statements showing that pauses between items at a leading English station during two hours of broadcasting aggregated 17½ minutes, or an average of about 50 seconds between items.

THIS COMPARES very unfavorably with the programmes at 3LO, upon which a careful and independent check was recently made, unknown to the management, and showed that the pauses between items and announcements of one week's programmes averaged only about 4 seconds. This is remarkable when it is considered that the usual emergencies had to be coped with, such as artists failing to appear and extra items having to be provided at a moment's notice, and also unavoidable delays in changing large groups of performers before the microphones.

Criticism For and Against

Few better instances of the widely diverging tastes of listeners-in have been afforded than the entries in 4QG's competition for the best letters criticising the station's activities.

The winning letters are published below.

NOT long ago 4QG announced that two prizes, each of £2/2/-, would be awarded to the authors of the best letters concerning the station's activities. One prize, it was stated, would be given to the listener writing the best letter praising 4QG, and the other would be paid to the writer of the best letter criticising its service.

It was pointed out that the winner of the first prize would not necessarily be the writer of the most flattering letter—it was not 4QG's intention merely to seek praise—but that the £2/2/- would be awarded to the listener who wrote the best letter detailing the value of any or all of the service rendered by the station. In regard to the other prize, it was pointed out that listeners were at liberty to write criticising 4QG and its service in any way they chose. The response to this competition, if it may be termed a competition, was very pleasing indeed, quite a large number of letters, both of praise and recommendation, reaching 4QG.

Large numbers of writers, who were both in support of and were opposed to the service, went to a considerable amount of trouble to express their views, and the bulk of the efforts indicated an intimate knowledge of the station, a knowledge which could have been acquired only by many hours of careful listening and by the exercising of much thought in the compiling of solid constructive criticism designed to prove helpful to all concerned. A few of the complimentary letters comprised mere flattery, and a few of the letters of criticism were of a bitter and destructive character. These two types of writers were, however, in a very small minority. The bulk of the letters of criticism were couched in very friendly terms, and numbers of them, whilst very strongly expressing the views of the writers, were of a very helpful nature.

The object of 4QG in asking for these letters was quite simple. Those at the station were anxious to hear from listeners who appreciated their efforts. Also they were very anxious to obtain criticism which would make it possible for them to give clients just what they require.

The Winning Critic.

The writer of the letter which won the prize for criticism was Mr. E. G.

Sherriff, of Highgate Hill, South Brisbane, who wrote as follows:—

"For a criticism to be constructive it is essential that it be impartial. Therefore, no offence should be taken by anyone against whom uncomplimentary remarks may be hurled, nor should any great elation be felt by those whose performance may be lauded to the sky.

"As a complete outsider, without the least cognisance of the inside management of 4QG, the writer has reached the conclusion that the organising staff has fallen into a condition which requires immediate attention.



Mr. J. W. Robinson, Director of 4QG.
Cartoon by Ian Gall.

"This does not infer complete indifference or failure to attempt to provide the service required by the listeners-in of Queensland, as is repeatedly shown by the noteworthy broadcasts given from time to time, of long distance relays and public functions, which must entail considerable work for all members of the staff. Rather it emphasises the fact that 4QG has in some manner estranged itself from its listeners in a mistaken attitude of dignity instead of drawing closer to its listeners in one huge bond of friendship more in accordance with the familiarity which has sprung up between listeners and the familiar voice of the unseen but ever-present announcer.

"To be successful, a broadcasting station must please all its listeners. Since it is obviously impossible for any one subject to please and interest everyone, the solution of the problem is to satisfy the majority of listeners most of the time and all the listeners some of the time.

"Even this is a large and difficult order to fulfil, but the whole solution lies in one word—'VARIETY.'

"'VARIETY' is what we want, and by 'we' I speak for my friends, myself, and, I am sure, for thousands of fellow listeners.

"We do not want to listen to the same violin and piano every evening from 6.5 to 6.25 even without the constant rattle of plates and dishes which form a very unmusical accompaniment. This period offers an exceptionally opportune interval for a gramophone record recital. We hear far too few records during the evening sessions.

"We do not want to listen to three or four successive soprano or tenor solos, or pianoforte solos either. Arrange the concerts so that no artist renders two consecutive numbers.

"There is nothing musical or entertaining in your standard time signals. If for any reason a set of chimes, as used by 4QG some time ago, is not accurate, cut down that monotonous tap-tap-tap to the last ten or fifteen seconds.

"We do not want talks, educational or otherwise, between 8 p.m. and 10 p.m. Let that period be purely entertainment.

"We want more orchestral and band music—but not a solid hour of it. Intersperse it with instrumental and vocal items.

"Give us more and still more relays. Mostly, if not exclusively, of musical functions. But do not switch over to a concert hall and leave us there all night. A few items from the relay, a few from the studio, then back again for a few minutes.

"Cut out the relays of social functions that consist of ninety per cent. speeches. These rarely interest the average listener.

"Variety is what we want. That word 'variety' cannot be too strongly emphasised. Give us more novelty items. I have never heard a musical saw, or a gum leaf, or a bassoon, or a ukelele solo. Remember that the piano, organ and violin are not the only musical instruments. The so-called musician who will not recognise an instrument because Beethoven, Schubert, or Mozart did not write a special composition for it, is not worthy of the name of musician. So let us hear some of the more popular instruments, such as the concertina, bells, xylophone, bagpipes, saxophone, mandoline, trombone, harp, horn, etc., just to mention a few in solo work.

"I could not close this short criticism without a word of praise for the engineering staff. Up until a few months ago one had to travel far to hear a kindly word on the subject of 4QG's transmission. Now it is a pleasure to listen to the almost perfect reproduction of speech, voice and music. Let us hope they will continue with the good work and bring more and more pleasure and satisfied enjoyment to their thousands of listeners. Even to such fault-finding and critical listeners as

"Yours faithfully,

"(Sgd.) E. G. SHERRIFF."

Winning Letter of Praise.

The winning letter praising 4QG was written by a man who signed himself "Billy Bluegum." His effort reads as follows:—

"For the past year or so I have been reading the endless stream of complaints coming through—piffle for the most part. And to my way of thinking you seem to get more kicks than ha'pence. It must be very disheartening, especially when you are doing your best to satisfy all hands, and yet you seem to go on fighting the good fight. To use an old Army phrase—'Carry on, Sergeant Major.' I suppose you have heard the old Aesop fable about the man who lost his ass through trying to satisfy his friends—even then he satisfied no one and lost the 'donk' into the bargain.

"A lot of your carping critics are, to my mind, something akin to the dingo in their sneaking attacks, hiding themselves under various noms-de-plume, usually under the evergreen one of 'Disgusted.' I may be old fashioned, but that is the word I

would use about their unfair attacks, and their unfair criticisms and with reference to themselves.

"In a broad sense the radio service is not so much appreciated in the heart of the city or even close to it, when one can put on one's hat—go down the street, and in a few minutes reach some place of amusement. The city folks get the best of everything in the way of amusement. But to the man in the country, and on the fringe of civilisation and beyond—the wireless comes as a gift from the gods. And the marvel to me is that more of them do not have sets installed. They do not know what they are missing!

"The fly in the amber seems to be to revolve itself around the question of the programmes 4QG puts on for its listeners. I am only speaking for myself, and I say, without fear of contradiction, that the programmes you put on are excellent. They are never stale, never the same old thing over and over again.

"You put on a wide range of subjects. Songs from 'Home, Sweet Home' to 'The Star of Bethlehem,' and music from Tschaikowsky's 'War March of the Priests' to a fox trot. Saturday afternoon races, fights from the stadium, speeches of all kinds, lectures on every conceivable subject under the canopy of Heaven, church services, C. of E., R.C., right along the line to the 7th Day Adventists. Band music, piano, organ, and everything in the way of musical instrument numbers down to a navvy's No. 5 shovel. And as old Bill Shakespeare used to say—'If music be the food of love—play on—give me excess of it.'

"Great Caesar's Ghost! what more do they want? I wonder would some of the lugubrious, carping, squealing howlers be satisfied if you were to put on the 'Hallelujah Chorus' direct from Heaven itself, sung by 10,000 angels, with harp accompaniment! Or a storm scene from the Infernal Regions, when His Satanic Majesty, on his morning tour of inspection, sees a handful of sulphur, which some luckless novice has spilled on the floor! I wonder.

"Personally, I am only a navvy on the Kyogle construction, a pick and shovel man, and consequently know more about those tools than a pen, and as Josh Billings would say—'I ain't no scollard,' and I find a difficulty in expressing myself as I should wish. I have a small crystal set and I am in a big construction camp right down in the Macpherson range, and at night time, after the day's work is over, instead of sitting around the community fire listening to ribald and highly risque stories, and the everlasting racing talk, etc., I go to my little 6 x 8 tent and tune in, and, in a manner of speaking, I go from the soup to the toothpicks until the ear-phones positively make my ears ache, I am well and truly satisfied with your splendid programme, night after night ad infinitum.

"For to paraphrase Longfellow:—
'And the night is now filled with music,

And the cares that infest the day
Fold their tents like the Arabs,
And as silently steal away.'

"(Sgd.) BILLY BLUEGUM."

The following extracts from other letters are given below. They are arranged to indicate the varying opinions of listeners

E.A.W.—We are told variety is the spice of life, but this ingredient does not play a part in 4QG.

J.E.O.—Hush, Grumblers — Erich John's party is on the air—2 hours of inspiring music.

J.N.—You have proved that those responsible for the programmes sent over the air are fit and proper persons for the job.

W.E.B.—I have a complaint, we get too much high class music.

J.L.—We get too many election speeches.

A.K.S.—I must not forget band music. It is always looked forward to. We want more band music.

G.S.—The programmes are awful to listen to.

J.J.McC.—Your entertainments are a never failing source of joy and wonder to us all.

W.J.G.—4QG's announcers are the best I've heard. They speak slowly, distinctly and correctly.

J.E.O.—Variety is always charming and we get it from 4QG.

H.—Erich John is very boring.

C.S.—You are paid to work for listeners, and it is time there was a move on and some of you were shunted.

W.S.—Of course, everybody enjoys high class music.

W.P.—Fancy being privileged to listen in one's own home to the Prime Minister addressing the electors.

G.S.—You give us too much band music.

S.E.A.—It is a delight and pleasure to listen to your programmes.

G.S.—Your entertainments leave much to be desired.

K.O.—Please teach your announcers to speak distinctly.

Do Results Warrant Cost of Relays ?

Better Land Lines Required Before Commercial Relay Stations Possible.

FOLLOWING the decision of the Directors of the New South Wales Broadcasting Company, Limited, to give a very thorough test to long land-line transmissions, a comprehensive programme operating over 4000 miles of trunk lines has been carried out during the past couple of months.

In view of the suggested establishment of relay stations at various points throughout the Commonwealth, a reference to these recent transmissions may be interesting to the general public. The series covered transmissions from Orange, Goulburn, Lismore, Windsor, Newcastle and Grafton, in this State, and Richmond, Melbourne and Dandenong, in Victoria, while relays were also arranged to Brisbane, Melbourne and Adelaide.

In the transmissions from Orange and Goulburn, the lines provided by the Department were fairly successful when carrying speech and solo items, but concerted instrumental and choral work had a tendency to become choked while in transit. The line from Lismore was not a success, as the quality of speech and music alike was not satisfactory. The general effect of the entertainment was destroyed by distortion. The interstate trunk lines, for the speeches of both the Prime Minister and Mr. Scullin, were successful, except for about the first ten minutes of the transmission from Dandenong. The line from Richmond was considered to have been superior to any other interstate broadcast by a trunk line.

The lines used for the Windsor and Newcastle transmissions were also unsuccessful, owing to continued interference from noise, which came across the transmission. The line from Grafton was highly successful, and demonstrated that, where the amplification is correctly carried out, and the lines are kept free from noise interference, working over long trunks presents no difficulty. Brisbane and Adelaide have also reported very satisfactory receptions in split relays during this period.

The average listener has little idea of the work involved in the relays which are now so frequently carried out between the various Capitals of Australia. The transmission from Grafton was amplified,

first at the point of transmission, and again at Toowoomba and Brisbane, for reception by 4QG.

Coming south, it was again amplified at Kempsey, Newcastle and Sydney, for broadcasting by 2BL, then split, and sent on with fresh amplification at Goulburn, Wangaratta and Melbourne, for broadcasting there. It was again amplified, and sent through to Adelaide.

Perhaps, it is worth mentioning the frequency with which the interstate stations are now using trunk lines for split relays. Melbourne took eight events from the recent Spring Carnival, at Sydney, while Sydney, Brisbane and Adelaide will take a similar number of races from Melbourne during its carnival.

In all these trunk line operations, the officers of the Postmaster-General's Department have given the broadcasting stations every help that is possible.

This relay work is a very costly item to broadcasting stations, as not only have they to find trunk line costs, but have also to despatch staff and gear to the point at which the broadcasting is carried out.

Studio Notes.

THE MAIL BAG at 2BL is now beginning to look healthy again with letters referring to the Motor Cycle Racing at the Speedway Royal. This appeals particularly to listeners in country districts, the majority of the mail coming from the North around Newcastle. It is hoped if the weather remains fine, to make the Speedway a regular item from the 2BL Service.

LISTENERS to 2BL will greatly enjoy the rendition in essence by the H. W. Varna Company of Milne's comedy, "Mr. Pim Passes By," on the evening of 14th November. Pompous George Morton and his wife, Olivia, are favored by a visit from Mr. Pim, who brings information that Olivia's first husband, supposed dead, has returned from Australia, intending to join his wife, Olivia. George's dignity is hurt, and his sense of propriety shocked, at his wife's supposed bigamy, but finally, after various passings by, on the part of Mr. Pim, each time with more disconcerting news, he discovers he has made a mistake in the name of Olivia's supposed returned husband, and peace of mind is restored to the troubled George. There is a further undercurrent of comedy in the doings of two young lovers, Brian and Dinah.

"A Newcastle Week End Broadcast."

THE New South Wales Broadcasting Company Limited, has now completed arrangements for the broadcasting of a series of events from Newcastle on Saturday and Sunday—the 10th and 11th of November.

On the Saturday afternoon—the great Northern Cup Meeting will be broadcast from the Newcastle Jockey Club's course, when each event will be described in the running.

On Saturday night a concert programme will be transmitted from the Central Hall, when Sydney and local artists will broadcast. The proceeds from this concert will be devoted to local charitable relief.

On Sunday morning, November 11th, an Organ Recital from the Church of England Cathedral, Newcastle, will be given by Mr. T. H. Massey, Cathedral Organist, and will run from 10.15 to 11 o'clock. Then will follow the morning service, at which the Rt. Rev. The Bishop of Newcastle will preach.

On Sunday night at 8 p.m., a grand sacred concert will be given from the Central Hall, Newcastle, when further local and Sydney artists will appear. Arrangements have also been made for the Hamilton District Band, which at present holds the Grand Championship of New South Wales, to take part and an Organ Recital on the new organ in the Central Hall will also be transmitted.

The broadcasting from the Racecourse will be done through 2FC Service, the concert at night from 8 p.m. to 9 p.m. through station 2BL, and from 9 p.m. till 10 p.m. through station 2FC. The Sunday programme will be transmitted through station 2FC.

Splendid Response To Appeal.

An appeal was made to the youngsters connected with the 2BL Radio Birthday Club a couple of weeks ago, as to whether they had any toys and books at home which they could do without, as these would be appreciated by the children at the Children's Hospital, Camperdown. The appeal was a great success. Not only was there a good response in small sums of money where the youngsters had no spare books or toys, but when the parcels were made up, altogether there were seven large clothes baskets full that had to be taken to the Hospital by car. This self denial effort on the part of the 2BL Birthday Club brought great joy to the hearts of many youngsters in the Hospital.

The Wireless Doctor's Prescriptions.

ONE OF THE BEST and most convenient earths for a portable set is a length of flexible wire soldered to an ordinary metal stair rod, which, if tapered, can easily be driven down into damp soil.

IT IS INADVISABLE to connect up new batteries to old, under the impression that a higher voltage will result. Internal resistance is increased by this method, and the result will be noise and distortion.

VERY OFTEN static is blamed for crackling in the 'phones or speaker. Quite frequently it is far from blameworthy. A simple test for static is to disconnect the aerial. If the noise continues, look to the batteries, particularly the "B" batteries; they will usually be found to have become flat.

WHEN OTHER than Ferranti transformers are used, connect a .001 fixed condenser between B and P of the first audio transformer. This will help oscillation. Ferranti transformers include this condenser.

A POWER VALVE requiring anything from 130 volts is necessary for the last audio stage if excessive volume is required—such as for use in a hall or dance room.

NEVER USE more than 90 volts on the plate of a 199 valve. For the audio stages, it will be found that 60 is quite sufficient.

WHEN WIRING up a receiver, do all the filament wiring first, then connect up the valves and batteries, and test the wiring before proceeding.

FOR NEATNESS and compactness, the filament and plate voltage wires may be bunched together. Care should be taken, however, to see that these wires are all well insulated from one another. Spaghetti covering may be used.

DON'T TINKER around with a screwdriver when your batteries are connected, otherwise a short circuit might occur. Always disconnect the batteries and remove the valves before making any adjustments to your receiver.

IF A CONDENSER is embodied in the aerial circuit, a difficulty may be encountered when it comes to neutralising, especially if a long aerial is used.

A BURNT-OUT transformer often signifies that moisture on the transformer winding has been decomposed by the high voltage.

A .005 FIXED condenser across the speaker terminals will frequently help to improve the quality of reception when a cheap transformer is used. It is well to try various capacities.

IN ERECTING an aerial in a congested area, care should be taken to see that if near another aerial, yours should run at right angles. This would minimise interference with the other.

IF THE EARTH is a buried plate, this should be taken out periodically, say, every six months, and examined.

ALWAYS KEEP THE electrolyte of your accumulator half an inch above the top of the plates.

WHEN MAKING up electrolyte, always add the acid to the water, never the water to the acid, otherwise an explosion may occur.

WHEN CHARGING batteries at a fairly high rate, make sure that the vent caps are removed, as this will allow an easy escape for gases.

DO NOT make a practice of lifting the lead connected to the charger, from the battery terminal, as the spark created may cause the gases to ignite, with unpleasant results.

A "FROSTED" or matt surface on aluminium panels is produced by immersing the metal for a few minutes in a solution of caustic soda.

THE FOLLOWING gives an idea of the capacity of variable condensers from the number of plates used. It must be remembered, however, that spacing and size of plates vary, and, therefore, the capacity may vary slightly. 23 plates—.0005; 17 plates .00035; 11 plates .00025; 5 plates .0001. Add this list to the one published recently.

IF a 199 valve is used with six volt valves in the rest of the circuit (say 201A's), a resistance of 33 ohms must be wired in series with the filament of the 199, otherwise double the required voltage will be fed to the valve.

WHEN a high-pitched squeak greets the listener on tuning in, the H.F. currents are feeding back into the amplifier. Embody a H.F. choke between the tickler and the plate of the first transformer.

KEEP THE GRID and plate wires short, and the wire between the fixed plates of the condenser and grid as short as possible—and well away from the baseboard.

AS THE PASTE inside an accumulator is the same as that inside a dry battery, care should be taken when the latter become old (for the paste is forced through the walls of the battery) that none of the paste comes into contact with floor coverings, furnishings, etc., or holes will be burnt.

IF YOUR CONDENSER reading changes on a broadcasting station, this may be due to the screw which grips the moving arm being loose—or it may be the fault of a bad earth connection.

SEVERAL correspondents have inquired as to a method of altering the connections of the Browning Drake R.F. primary coils. This change was made in the 1928 Browning Drake, and consists of placing in the R.F. plate B positive lead a radio frequency choke instead of the primary coil. The primary is then connected to the plate with a .5 mfd. condenser in series, and the other end of the primary is earthed to A negative instead of being connected to B positive. Improved results may be looked for with this change, either in one or two R.F. stages.

IT HAS TAKEN me some time to compile these additional lists of condenser combinations, which have been asked for by many readers. You will note that special capacities may be made by connecting different condensers in series and parallel. The first two capacities represent the condensers used. .0001 and .00025 in series—.000071, in parallel, .00035; .0001 and .0005 in series—.000083, in parallel, .0006; .0001 and .001 in series—.000093, in parallel, .0011; .0001 and .002 in series—.000095, in parallel, .0021; .0001 and .005 in series—.000098, parallel, .0051; .0001 and .006—series .00098, parallel .0061; .00025 and .0005, series—.00016, parallel .00075; .00025 and .001 series—.0002, parallel .000125; .00025 and .002 series—.00022, parallel .00225; .00025 and .005 series—.00023, parallel .000325; .00025 and .006, .00024; .0005 and .001 series—.00033, parallel .0015; .0005 and .002 series—.0004, parallel .0025; .0005 and .005 series—.00045, parallel .0055; .0005 and .006 series—.00046, parallel .0065; .001 and .002 series—.00066, parallel .003; .001 and .005 series—.00083, parallel .006; .001 and .006 series—.00085, parallel .007; .002 and .005 series—.0014, parallel .007; .002 and .006 series—.0015, parallel .008; .005 and .006 series—.0027, parallel .011.



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.

ANOTHER PHENOMENON.

Dear Sir,—Noticing a description of what J. J. Anderson designated a phenomenon, might I suggest the following experiment to that gentleman?

Just prior to a train passing, disconnect the radio set, and, if there is not already a lightning arrester in the aerial-earth circuit, put one in, even if only two wires, 1-16th of an inch apart, at gap.

Watch this gap when the train is passing, and it may be noticed that tiny sparks jump over at regular intervals, according to the steam exhaust of the engine. Even if they are not noticeable, a pair of 'phones, connected between A and E, will detect them. I have had the same experience, but have not the knowledge to assign the cause.

Yours, etc.,

Nowra. **STRAIGHT SIX.**

ELECTRIC PICK-UPS.

Dear Sir,—Most of us are conversant with the working of the electric gramophone, such as the "Brunswick Panatrope" or the new "Edison Electric Phonograph" which reproduces the music from any record to any degree of loudness, with utmost fidelity of tone. Both machines make use of the Electrical Pick-up—o wonderful unit, which, when connected to a suitable amplifier and a dynamic cone speaker, will produce volume equal to that emitted from an actual orchestra, or organ. Radio dealers are selling these pick-ups, and there are many makes of them on the market, all worthy of consideration. For the benefit of readers who are not acquainted with such a unit, and who anticipate using one on their old phonograph, the following remarks on the choosing of one will not be out of place.

I have had the opportunity to test a well known make of Pick-Up on various amplifiers, and have found it to compare with the best, and to sometimes reign superior. This particular make of Pick-up is of English manufacture and is extremely portable. Without mentioning the name of this unit, I will be content to say that it reigns next to the finest make on the market, as regards delivery of

pure tone, but to produce these results one has to connect it to a power amplifier, on one that will not produce a trace of distortion. It is extremely sensitive, and will amplify all the harmonics.

When choosing a pick-up have it tested under actual conditions before purchasing. Listen for the harmonics, and overtones, and see that they are reproduced faithfully. An organ number is probably the best test, and one that will demonstrate the qualities of your pick-up is entitled "Dizzy Singers," a "Regal" record No. G20173 and is played on a Cinema Wurlitzer. Listen carefully for the high and low notes of this item, and do not play the record too fast, the music is all ups and downs. One make of pick-up that I tested missed the high notes of this number altogether and completely distorted the low ones.

The Bosch Recreator is an excellent article and will give you all the musical qualities you desire. It is identical with the one used on the "Brunswick Panatrope."

You will, as I did, find that the acid test on your amplifier and recreator is a talking record. In fact nobody knows how good their amplifier really is until they hear a record of speech put through it. The one I took was part 3 and 4 of the "Two Black Crows" and results on my Pick-up were all that could be desired. The owner of a home constructed electric gramophone will be wise to test his machine for speech with this record, and then he will know how good his amplifier really is.

I would advise that the use of leads to the Pick-up should be kept as short as possible, and if the constructor of the electric gramophone can build his amplifier into the phonograph cabinet so much the better for reproduction. Frequently one will build the gramophone combination with a Pick-up, and a good amplifier and get very poor results. The fault is in the loud speaker, only a very good make should be used. I recommend the moving coil dynamic type or some good cone speaker. The R.C.A. 100A is a very good make.

I do not want this letter to be regarded as an advertising talk, and I hope that it will prove helpful to the purchaser of the "Electrical Gramo-

phone Pick-up." Finally anybody requiring information on the correct amplifier to use with the magnetic recreator, if they care to write to me I will endeavour to fulfil all requests. The fee is a stamp for postage of replies.

B. O'BRIEN.

Alexandria.

PRONUNCIATION.

Dear Sir,—The various pronunciations of the local and interstate announcers, commented upon by your various correspondents, undoubtedly requires some standardisation. My own name, carrying no weight (in fact, with your permission I will use a pseudonym), I will refrain from further comment. Instead, I append here a cutting from "The Times," of July 27, which states the case fully, and which I suggest you reprint.

Under the headings "Broadcast English," "A Guide for Announcers," it reads as follows:—

"The first official publication, embodying the findings of the Advisory Committee on Spoken English, which was appointed in 1926 by the British Broadcasting Corporation, under the chairmanship of Mr. Robert Bridges, the Poet-Laureate, with Sir Johnston Forbes-Robertson, Professor Daniel Jones, Mr. George Bernard Shaw, Mr. Logan Pearsall Smith, and Mr. A. Lloyd James as members, has been issued in the form of a booklet.

"Since the earliest days of broadcasting, the B.B.C. has recognised a great responsibility towards the problems of spoken English, and the policy now pursued by the committee is an attempt to seek a common denominator of educated speech. The recommendations contained in the booklet are the outcome of the committee's deliberations, and are made in order to secure some measure of uniformity in the pronunciation of broadcast English.

"In an introduction to the booklet, Mr. A. Lloyd James, the honorary secretary, points out that 'it is not suggested that these pronunciations are the only 'right' ones, and it is not suggested that any special degrees of authority attaches to these

recommendations. They are recommendations made primarily for the benefit of announcers, to secure some measure of uniformity in the pronunciation of broadcast English, and to provide announcers with some degree of protection against the criticism to which they are, from the nature of their work, peculiarly liable.

"Dealing with the different styles of pronunciation of English, Mr. James states that 'it is quite evident that we are not entitled to conclude that there is one standard pronunciation, one, and only one, right way of speaking English. There are varieties that are acceptable throughout the country, and others that are not. It is probable that the Southern variety (favoring the long vowel, as in dance) will prevail, merely because it is the Southern variety, and is current in the metropolis. There is no standard dialect, but here, as in all communities, the educated speech of the capital starts with a heavy handicap in its favor.'

"It is probably too much to expect that all the Committee's recommendations will gain general acceptance. Indeed, exception has already been taken by those concerned with flying to what is described as their gratuitous advice to use airplane instead of aeroplane, although aeroplane has been officially adopted by the Air Ministry, and appears also in the Glossary of Aeronautical Terms. The first syllable of 'eyrie' is made to rhyme with 'sigh.' The initial consonant of 'Celtic' is to be pronounced 's' not 'k,' although, as the Committee say, 'the k pronunciation is general in Wales.'

Among the recommendations, the following are of special interest:—

Accomplish.—accomplish, not-cum.

Adults.—addults.

Aerated.—ay-erated.

Anglice.—anglissy.

Arid.—arrid.

Aspirant.—Stress on second syllable, which is pronounced as spire.

Auld Lang Syne.—Syne is to be pronounced like sign; the s is not to be pronounced z.

Barrage.—barraazh.

Capitalist.—Stress on first syllable.

Cenotaph.—sennotaaf.

Centenary.—senteenary.

Centrifugal.—sentriffewgal.

Chagrin.—(a) noun—shagrin; (b) verb—shagreen.

Chastisement.—Stress on first syllable; the pronunciation which has the stress on the second syllable (with a long i) is obsolescent.

Combat.—Cumbat.

Comparable.—Stress on first syllable.

Construe.—Stress on second syllable.

Controversy.—Stress on first syllable.

Courtesy.—Curtesy.

Cuneiform.—To rhyme with uniform.

Decade.—Dekkad.

Deficit.—Deffissit.

Ensemble.—Onsoble.

Envelope.—First syllable enn-, not on-.

Falcon.—Fawkon.

Fanatic.—Fanattic.

Fantasia.—Fantazeea.

Fauteuil.—Fotill; the committee recommends an English pronunciation.

Furore.—The committee recommends the pronunciation fewroar, except for the musical term, which is fooroary.

Gala.—Gaala.

Gondola.—Stress on first syllable.

Housewifery.—Huzzifry.

Humor.—H to be sounded.

Idyll.—Iddill.

Immanent.—Immaynent, to avoid confusion with imminent.

Infinite.—Innfinitt; not in-fine-ite; except where metrical considerations require this pronunciation.

Laboratory.—Stress on second syllable.

Lichen.—lyken.

Naive.—naa-eev.

Patriot.—Pattriot.

Pejorative.—peejorativ.

Pianoforte.—final e to be pronounced.

Plebiscite.—plebbissit.

Pomegranate.—pomgranate.

Precedence.—presceendence.

Progress.—(a) noun—progress; (b) verb—progress.

Saline.—(a) noun—salyne; (b) adjective—saylyne.

Tryst.—vowel as in rice.

Valet.—vallett.

Viola.—(a) musical instrument—viola; (b) flower—vyola.

Zoological.—zo-olaj-ical. In Zoological gardens, the word is pronounced zoo-loj-ical.

I suggest that the Australian announcers get hold of this booklet, and study it carefully.

Yours, etc.,

AN OLD ACTOR.

Darlinghurst.

Are All Receiving Sets Authorised?

Ray Dio

THE question of listeners' licences has cropped up again. Comparisons have been made between the States on the basis of the numbers of listening licences that have been taken out. There are still several discrepancies between the States. The most unsatisfactory position exists in West Australia, where the figures have either fallen off or maintained a fairly even level. But that level is far too low for the population that is served or should be served. It is really a worse position than in Tasmania, which was, until recently, the worst "scorer." Since the new management has taken over in the Apple State the services have apparently gained more public approval, judging by the increases in the licence figures.

Of course, one must admit that the Tasmanian listener has a better chance of obtaining a variety of broadcast services. He can listen to more stations than the listener in or near Perth, and, unfortunately, the wavelength of the Perth station is such that the transmissions from that station cannot be picked up on several types of modern popular receivers. Some attempt at standardizing the wavelengths of the Australian stations on a more satisfactory basis is urgently necessary. The South Australian totals have advanced recently also, and the measure of appreciation of the new management is thus reflected.

The figures that attract most notice are those showing the totals in New South Wales, and a comparison is not unreasonably made with the Victorian

totals. The figures for the previous State are still far below those for Victoria, being respectively 87,000 and 142,000. It is very difficult to explain that remarkable discrepancy. The broadcasting services commenced first in Sydney, and there were many thousands of listeners in Sydney before 3LO Melbourne opened its service. The Sydney totals increased for a while, then were reduced by numerous withdrawals of licences—apparently by listeners who did not wish to continue to desire their broadcast entertainments. A gradual increase followed, but it was a very slight increase, month by month, in comparison with the increases in Victoria.

Many and varied are the theories put forward to explain the difference—either in public appreciation of the services or in the desire to pay for them by obtaining the requisite licenses. No completely satisfactory explanation has yet been given, however. Some people are inclined to the opinion that the increasing numbers of portable sets account for many unlicensed listeners. Such a statement, of course, is but a guess; but there may be some element of accuracy in it. The portable set and other types of receivers not utilising external aerial do offer a temptation to unprincipled persons to use the services without paying for them. The remedy would appear to lie primarily with the dealers who sell the sets, to see that some action is taken to ensure that licences are taken out.

Enterprising Private N.Z. Broadcaster

Details of 3ZC Christchurch

ALTHOUGH broadcasting in New Zealand is practically a monopoly, the Government having made a lengthy contract with a private company (the New Zealand Broadcasting Company, Ltd.), the four official broadcasting stations now have a keen competitor in 3ZC, of Christchurch, an enterprising private station, which is proving highly popular with listeners throughout the Dominion.

3ZC first came on the air last December, and, since its opening night, it has maintained a daily schedule of programmes, with many special features. For the first six months of its existence, the station used a transmitter of 50 watts, but it has recently installed a modern plant of a specially designed type, which is capable of giving an output of 250 watts. Its wave-length is 250 metres.

Three sessions daily are provided by 3ZC. From 10 a.m. till 11 a.m., a Woman's Session is broadcast. At 12 noon, the station presents a news and concert session, till 1 p.m. At 5 p.m., the station again comes on the air, with an early evening news and concert session, lasting till 5.45 p.m.

On Tuesday, which would otherwise be a silent day in Christchurch, 3ZC nobly fills the gap. In addition to its morning and mid-day sessions, it provides an excellent concert programme, from 2.30 till 4.30. At 6.30, a very fine children's session is presented, lasting till 7.45. From 7.45 till 8 p.m., a news session is broadcast, and from 8 till 10.15 another concert session is broadcast. On the third Tuesday in each month, the station remains on the air till 11.30, broadcasting a special dance programme.

On alternate Sundays, 3ZC relays the morning service from the Christchurch Anglican Cathedral, where the musical service is one of the finest south of the line.

Recently, 3ZC placed its plant at the service of the Canterbury Education Board, and arrangements are now in train for the institution of regular broadcasts, by expert teachers, to the children of the Canterbury schools.

The proposal to equip the main expresses in New Zealand with radio emanated from 3ZC, which conducted negotiations for some time with the Railway Department.

The station has been granted a licence by the Government to institute regular services on a short wave, and a new short-wave transmitter has now been completed. It broadcasts on a wave-length of 50 metres.

3ZC has received reports from America, and numerous reports from America on its transmissions and programmes, and its daily mail includes letters from all parts of the Dominion.

The station address is 118 Armagh Street, Christchurch, and visitors are always made welcome. The postal address is 3ZC, Christchurch, and those who write to the station, reporting reception, receive a novel and original acknowledgment card.

Coming Features at 3AR

SUNDAY, NOVEMBER 11:

10.50 a.m.—Armistice Service from Scot's Church.

3 p.m.—Annual Memorial Service of Victorian Scottish Regiment.

8.30 p.m.—Strad Trio.

MONDAY, NOVEMBER 12:

1 p.m.—Description of Cricket Match Victoria v. South Australia.

Night—Radi-O-Aces Dance Programmes.

9.42 p.m.—Frank Harwood, Character vocalist.

TUESDAY, NOVEMBER 13:

4 p.m.—Imperial Russian Trio.

9 p.m.—Madam Ella Kingston, Soprano.

10.2 p.m.—J. Harcourt Bailey, Entertainer.

WEDNESDAY, NOVEMBER 14:

12.22 p.m.—Archie and Wattie, Pithy Piths.

8.52 p.m.—Vera Buck, Piano.

9.9 p.m.—Professor Berry in Baltimore.

THURSDAY, NOVEMBER 15:

Night—Radi-O-Aces-Dance Night.

9.15 p.m.—Alan Adcock, Entertainer.

10.27 p.m.—Julia Russell, Soprano.

FRIDAY, NOVEMBER 16:

5 p.m.—Sonora Recital.

8.30 p.m.—Community Singing from Ballarat.

10.30 p.m.—Alan Adcock, The Wax-works Watchman.

SATURDAY, NOVEMBER 17:

3 p.m.—Station Orchestra.

9.2 p.m.—One-Act Play

"The Proposal."

10.3 p.m.—C. E. Monteath, Organ Recital.

THURSDAY night, November 15, there is a little alteration in the usual dance programme broadcast from 3LO. On this occasion the speech of the Archbishop of Melbourne, who will be speaking at the Picture Theatre at Box Hill, will be broadcast. At ten o'clock, at the conclusion of the speech, there will be a simultaneous broadcasting of dance music from both 3AR and 3LO. By this means it is hoped to satisfy the ever-increasing circle of listeners who demand both grave and gay.

Antarctic Tests—7ZL, Hobart and Whalers

Messages from Wilkins

THE Norwegian Whaling Fleet, which left Hobart a week or two ago, has gone to the Antarctic to catch whales. There is nothing remarkable in that statement, but there is a great deal of interest in the announcement that while the fleet is in the frozen South, the chief wireless operator (Mr. Olsen) will be carrying out tests in conjunction with 7ZL Hobart, and rebroadcasts from the station will probably be heard in Australia.

The efficiency of the equipment on the N.T. Neilsen Alonso, the mother ship of the whalers, has been increased by some gear lent by 7ZL, and Olsen is to make full and thorough tests (both Morse and telephonic) on a wave-length of 31.5 metres. During the last trip to the Ross Sea he was in constant communication with mainland stations, as well as with Norway, Germany, and other European countries. His tests with Hobart should, therefore, prove most successful.

Olsen will also broadcast concerts twice a week. He has been given a large quantity of gramophone records by 7ZL for this purpose, but the most interesting items should be those given by the members of the crew. There are some excellent vocalists and instrumentalists among the Norwegians, and their singing of the old Viking choruses and other Norse songs, sent out over the air from the Antarctic regions, will be an achievement unique in Australian broadcasting, in addition to being a most commendable innovation. There are thirty-six Tasmanians on the whalers, and those of their people possessing sets, will be listening keenly for news.

Sir George Wilkins, the Australian airman, famed for his North Polar flight, who is setting out on an aerial expedition to the South Pole, will be keeping in touch with the N.T. Neilsen Alonso. In fact, he has on board a large quantity of motor spirit which the airman is going to pick up at Ross Bay. The whaling commander (Captain Andreassen) hopes to arrange with Sir George to broadcast a special message for 7ZL Hobart over the short wave so that listeners will be able to receive reports of the intrepid explorer's progress. In addition, Olsen is going to test the signals of 3LO's short wave and will make weekly reports of the reception.

In the Air at 3LO, Melbourne

New Features in the Programmes

THE REMARKABLE singing of Senia Chostiakoff at 3LO Melbourne has created a very favorable impression, and listeners will be pleased with the advance announcement that he is booked for another season to commence on December 17.

CONTINUING his series of talks on "The Famous Books of the World," the Rev. Wm. Bottomley will take listeners on an imaginary trip with the immortal Gulliver, on Thursday, November 15. It is a good many years since some of us read about this adventuresome gentleman, made historical by Dean Swift, many of the youngest people do not know of him at all, and this talk will do much to prove to all concerned that, after all, there are no books like the old books, once we have come to regard them as our friends.

ON MONDAY, November 12, the Royal Victorian Leidertafel will be heard from 3LO. The society is too well known to need any introduction in these pages, and for this occasion they have arranged a most impressive programme of Elgar music, which will open with the sonorous part-song, "The Wanderer," followed by five part-songs from the Greek Anthology. The programme will conclude with the marching song, "Zut Zut," in which some fine vocal effects are promised. The whole performance is under the baton of Mansley Greer, and musical listeners should make a special note of this date.

THURSDAY, November 15, is by way of being a gala day for the community singers, who will hold their session in the Town Hall. A really excellent programme has been arranged, including piano solos by Edward Goll, quartettes from the Sundowners, special numbers from the Radi-O-Aces, and community singing of old-time choruses, under the direction of Mr. Frank Hatherly, who made such a favorable impression the last time he wielded the baton. This session is always well attended and most popular, and the one arranged for the 15th bids fair to eclipse everything, so don't neglect to make a note of this date.

UNDER the title of "A Little While with Tennyson," a programme of music, prose and poetry has been arranged, and will be broadcast from 3LO on Wednesday, November 14. Four songs from "Maude"—"She Came to the Village Church," "I have Led her Home," "Oh, that 'twere Possible," and "Come into the Garden, Maud," will be sung by that fine bass-baritone, Mr. Victor Harding, and J. Howlett Ross will give a recital of poems, culled from the works of the great poet. Mary Mack, whose fine sympathetic contralto voice has won her many friends to 3LO, will be included in the programme, her contributions being "Break, Break, Break" (Mitchell), and "Now Sleeps the Crimson Petal" (Quilter).

THOSE WHO contemplate running that "little poultry farm of their own" and trusting it will be an unqualified success, will gain much valuable information from the talk on the "Preparation of Table Poultry," given from 3LO on Monday, November 12, by Mr. W. G. T. Rugg, Poultry Expert from the Department of Agriculture. Expert advice as to the selecting of birds, the breeds that will sell best for the table, and a hundred and one little facts that usually only come with the experience of years, will be given to amateur poultry farmers, together with a good deal of "corrective" advice also.

THE SEASONABLE arrangement made by 3LO with Mr. R. H. Campbell, one of the champion statisticians of the world, has met with the widespread approval of all lovers of cricket. This series will be continued throughout the tour of the English eleven, and has been so planned that, the night before an important match is to take place, Mr. Campbell will give a racy and descriptive talk on the previous prowess of the contesting teams to date. Few people are better qualified to give these talks than Mr. Campbell, who is proud to recall the fact that he visited Lords—the famous English cricket ground—to see the first test match ever played. It is also of interest to note that the kind friend who made it possible for him to see all these early matches, and to foster his love for the sport, was none other than W. H. Penley—who, as some of our older readers will remember, was the original "Private Secretary," and followed this colossal success, with the evergreen "Charley's Aunt."

TO MARK the passage of Armistice Day in Melbourne, All Saints', St. Kilda, will celebrate the 70th anniversary of the opening of the church. There will be a dedication of the Memorial Shrine by the Archbishop of Melbourne, and suitable music will be rendered by the choir. The ceremony will be broadcast by 3LO, and the Mayor and Councillors of St. Kilda have announced their intention of appearing officially. After the ceremony, His Honor, Mr. Justice Higgins, will speak from 3LO on "The World's Peace and Disarmament," and J. Howlett Ross will also deliver one of his fine moral lectures on "Armistice Day, and What It Stands For."

THE WIDELY increasing circle of listeners who enjoy a "travelogue" may look forward with pleasure to Miss Frances Fraser's talk from 3LO on Friday, November 16, when she will discuss English Cathedrals. During this jaunt round rural England, listeners will be transported to the Middle Ages, and revel in the historical associations which give such a charm to the English countryside. We shall be taken to the peaceful old-world towns of Canterbury, York and Bath, all with their Cathedrals dating back to the dim ages, and brimful of interest and romance, even in this most work-a-day of worlds.

EXTENSIVE preparations are well in hand to decide the winner of the Grand Vocal Championship, in connection with the Welsh Delegation, which is going overseas in 1929, taking with them the winner of the championship, who, in addition to a most interesting trip, and £100 prize money, will represent Australia in the Welsh Eisteddfod in 1929, which is to be held at Liverpool. The names have not yet come to hand of all the champions in the various States, but Mr. Arnold Matters, winner of the 1927 "Sun" Aria Competition, will represent South Australia; Irene Stancliffe (Perth), and Eric Jones, who is most popular with listeners to 3LO and who carried off the recent vocal championship at Geelong, will represent Victoria. It is interesting to note that, to date, Eric Jones is the only Welsh Australian in the contest, and his many well-wishers will watch his progress with interest. The final test will take the form of a grand concert in the Melbourne Town Hall in December, and will be broadcast by 3LO.

A Talk on Cricket

We publish below a talk on cricket which is to be broadcast from 3LO on Friday next as an overture to the description of the England v. N.S.W. match on the following day. It will be delivered by Mr. R. H. Campbell

TO-MORROW, in Sydney, England meets New South Wales, and the story to-night is a short account of contests in these series of games already played. The man is to be envied of whom it may be said that "all his geese are swans." So, too, is the cricket historian who is able to pronounce every game a special occasion. There is no difficulty in doing this, when English matches on the Sydney ground are under review. The long series has simply been studied with what may be called particularities.

Starting off with the match against Lillywhite's XI. in January, 1877, it is found to be the first in which we tackled an English team on level terms. Our country and our men were accorded full status in the national game from that date. Against Lord Harris's XI. in January, 1879, New South Wales gained the first victory over England credited to a separate colony. The point in the return game was introduced by individual players—the two English professionals. Ulyett brought off a bowling sensation that stands to this day as an Australian record. He took 4 wickets with successive balls—Evans, D. W. Gregory, Spofforth, and Tindall. Emmett, who first among English visitors really specialised in off-theory, had 8 wickets for 47 in the first New South Wales innings. The match in December, 1882, was won by the Hon. Ivo Bligh's team, with an innings and 144 runs to spare. Leslie utilised this match to introduce the first century score into these engagements—144. When Alfred Shaw arrived with his henchmen in November, 1884, the local men were hurried out for 44 in the second innings, half the runs going to one man, S. P. Jones. The game might appropriately have been described as the "poultry pageant," there being 12 "ducks" in it. New South Wales claimed 8 of them—a sad claim indeed! William Barnes registered a tit-tit average of 4 wickets for 1 run. Such fanciful figures have never since been recorded. Trundlers were again responsible for the outstanding feature of the return match in January, 1885, when Attewell and Peel bowled unchanged in the first New South Wales innings, a selfish but enviable experience not previously indulged in these contests. Peel's 7 wickets cost him 27 runs. In the next match Eng-

land was led by the great batsman Shrewsbury. This alone would have made the game noteworthy; but it also served to introduce bowling partners who were destined to become very famous—Ferris-Turner combine. They made an auspicious start at Sydney in November, 1886, by dividing all the wickets in England's two innings, Turner taking 13 for 54 and Ferris 7 for 99. In the return game in December, Ferris and Turner again indulged their unique appetite for wickets by dividing all the wickets in the first English innings, Turner this time bagging 7 for 77. The historic bowling pair had a third opportunity against this eleven in February, 1887, and divided 18 wickets between them—nine in each innings. Turner's altogether phenomenal figures were 8 for 32 and 6 for 27. English visits were popular just then, the season 1887-8 finding two elevens in Australia. Ferris and Turner lost no time in bringing themselves under the rather amazed notice of C. A. Smith's team, whom they dismissed for 49, Ferris doing the more deadly work for once. He had 6 for 24. Turner's little lot being 4 for 22. They bowled unchanged for the first time against England.

An interesting ringing of the changes occurred when the Hon. M. B. Hawke's eleven faced this insatiable pair. The first innings found Turner with 7 for 106 and Ferris with 2 for 135. Next go the figures read:—Turner 2 for 40, Ferris 7 for 49. A special feature of the engagement was supplied by the ex-Victorian, P. S. McDonnell, who registered the first century score hit for New South Wales against England—a capital 112.

The history-makers were again destructively busy when the return match with C. A. Smith's team took place, Turner proving quite incorrigible. Not content with 8 for 39 in the first innings, he strove for something even greater at the second try, and missed it by two runs only, his inning's figures reading 8 for 40. With 16 wickets in the match he made a record for international games here that stands to this day. For the second time the unequalled combine controlled an innings unchanged. But the game bore another distinctive aspect, arranged by the master English trundler, Lehmann, who claimed 7 wickets for 68 and 7

for 97. Such a budget of New South Wales victims had never previously fallen to an Englishman. The great Lancashire left-hander, Johnny Briggs, now comes into the Sydney picture. This word is rather appropriate, by the way, as the Sydney side impressed itself upon Johnny's sense of the picturesque. He was an unassuming little chap, and when enjoying a steamer picnic on the Parramatta, turned to one of his entertainers with this remark, "Fancy me—fancy me being good enough to come for a trip to Australia like this." Lord Sheffield and his fellow teamsmen, together with his Sydney victims, considered him quite good enough when he cleaned up 5 wickets for 10 runs. Another of the sturdy type of English professionals, J. T. Brown, gave special color to the first game in Sydney of Stoddart's 1894-5 team. The masterful Yorkshireman had introduced himself in Adelaide with 115 and went two runs better in making his bow to a Sydney crowd. After a lapse of three years Stoddart led his second team into the Sydney field. A sport greatly favored by A. C. MacLaren, who began with a century score, 142, and enjoyed the exercise so much that he raised another, an even 100, in the second innings. This was the pioneer example of two separate centuries in an international match on Australian soil. Joining cheerfully in the run hunt, Ranjitsinhji subscribed 112, not out. Like J. T. Brown, the inimitable Indian batsman thus got three figures at the first go in both Adelaide and Sydney. By way of variety the return game was notable for team work as distinguished from individual brilliancy. The result was a record grand aggregate of 1739 runs for the game, which New South Wales won with 415 and 574 to England's 387 and 363. But the New South Welshmen's 574 sinks into insignificance beside the gigantic outpouring of runs by MacLaren's team, in January, 1902. The English captain and Hayward began with 314 for the first wicket. There never has been such another partnership in these games, nor has any Englishman equalled Hayward's 174 against New South Wales. Runs were accumulated by later batsmen until the total stood at 769. The chronicles of international cricket in this country contain no other entry of equal bulk. Duff hit

up 194 against Lord Hawke's team, after the latter had returned from New Zealand in March, 1903, which was the highest home score against England up to this period. Swinging back to the visitors' camp, the special honors associated with A. O. Jones's visit take the form of a unique defeat of New South Wales by the appalling margin of 408 runs. No other team in this country has ever been subjected, by their English conquerors, to as much surplus leather-hunting. In a sketch of this kind the name of Rhodes is bound to crop up. The Yorkshire veteran first became famous as a bowler, but batted himself into form capable of producing 119 and 109 for Warner's XI. against New South Wales in February, 1912. Against Douglas's 1920-1 team Collins and Macartney made a first wicket record stand for a home-made partnership. They collected 244 together. The English skipper's retaliation was reserved for the return match, when he "hat-tricked" Hendry, Mailey and Oldfield.

Chapman's chanceless 100 was the outstanding feature of the game against MacLaren's XI. in November, 1922, which won him the goodwill of the Sydney public. In the return game in March, 1923, Freeman, now with the present English team, took 4 wickets for 99 and 3 for 34.

In the opening match of Gilligan's 1924-5 team Tate got among the New South Welshmen with 7 for 74—not one clean bowled, and 3 for 59—all clean bowled. Chapman (the captain of the present English team in Australia) played a remarkable innings for 72 in about an hour's play, hitting with great force, and when he could not reach the fast off-balls with two hands on the handle of the bat, he swung at them with one, rattling the ball against the fence. Tommy Andrews hit up 224 in the return game in February, 1925. This is the tallest home score in the English-New South Wales calendar.

The story closes with the mention of the 619 New South Wales innings of the largest score ever hit by an Australian side against a visiting England XI.

England won 18; New South Wales won 10; drawn 7.

ON THE NIGHT of November 17, 4QG will remain open until midnight, in order to give the results of the polling at the Federal elections, as they come to hand.

A TALK of special interest to women will be given during the afternoon session from 7ZL, Hobart, on November 14, by Miss Eileen May Rowlands, Directress of the Hobart Free Kindergarten, who will speak on "Child Training." Miss Rowlands is an eloquent speaker, and fully conversant with her subject.

Interstate Programme News

4QG

ALTHOUGH IT seems a long way to Christmas, the question of the Christmas Eve programmes is occupying the minds of those in charge of 4QG, and preparations for a first-class entertainment for listeners are now being made. The station will remain open until after midnight, and appropriate music will be provided by bands, soloists, orchestras and choral parties.

THE MERRYMAKERS TRIO, a new musical combination, will shortly make its appearance on the programmes of 4QG. The party comprises Nat. Gould, who plays banjo, guitar and ukelele; Grace Gould, pianiste, and R. Ireland, baritone. The trio will provide a short entertainment, comprising popular music on several nights during November and December.

DURING THE latter portion of 4QG's programmes, on the night of Friday, November 16, the whole of the songs and music will be those known and largely sung during the war days. There will be several solos, and many war-time melodies will be harmonised and sung in chorus form by the Studio Orpheans, under the leadership of Mr. Tom Muller.

ON TWO or three occasions in the past, 4QG has conducted a "Mystery Programme." The names of artists have been deleted, and the performers have been referred to by letter only. Listeners have then been asked to identify the programme, and post their attempts to the station. Each time such a programme has been provided, a great amount of interest has been displayed in it, and hundreds of replies have reached the station. Such being the case, it has been decided to repeat the "stunt" on Monday, November 26. A prize of £2/2/ will be awarded to the listener who correctly identifies all the artists. In the event of more than one listener being correct, the replies will be placed in a box, and a drawing made, to determine who shall receive the prize.

ANOTHER FULL night's programme will be provided by the Brisbane Municipal Concert Band, under the leadership of Mr. E. Jackson, and will be broadcast by 4QG on the night of Tuesday, November 27. Those who remember the capital programme provided, a week or so ago, by the Band, will doubtless look forward with pleasure to the next evening.

3AR

AN INTRIGUING one-act play, "The Proposal," will be given, from 3AR, on Saturday night, November 17, by Beresford Fowler, and some of his clever fellow artists.

SUNDAY, November 11, being Armistice Day, special services have been arranged in most of the churches in Melbourne, and throughout Australia, and the service at Scots' Church will be broadcast by 3AR, and will take the form of the annual memorial service of the Scottish Regiment Association. Appropriate music, both instrumental and choral, will be rendered, and the "Last Post" will be sounded.

POPULAR CHORAL CONCERT: A concert has been arranged by the ladies of the Southern Choral Society, under the direction of Graham Burgin, and will broadcast from 3AR on the night of Sunday, November 11. The programme will consist of solos and duets, with some old English part songs and glees.

7ZL

7ZL will make another trip to the Hobart Zoo, during the children's hour, on November 14, and the Curator (Mr. A. R. Read) will give some pithy pars. from the pit of the Polar bears. (Children who find difficulty in saying this 13 times, without becoming tangled, should listen to "Uncle David"—he may be worse.) After Mr. Read has described the lives and habits of the bears, the animals themselves will broadcast their "Good-night Greetings," and, later, back in the studio, little Teddy Richardson will entertain the boys and girls, before they go to bed.

MR. T. FINCH, the professional of the Royal Tennis Club of Tasmania, will speak from 7ZL on November 14, on "Royal Tennis." Mr. Finch is one of the leading Royal Tennis players in the Commonwealth, and he has been prominent in professional and open tournaments for a long time. Other talks to be given from 7ZL include:—Mr. E. Sorell, "Rowing," and Mr. W. H. Clemes (Principal of Clemes College), on behalf of the 7ZL and "Mercury" hospital wireless appeal, on November 15; and November 16, Mr. L. Ainsworth (Divisional Returning Officer for Denison), "Voting, to-morrow, is compulsory; words of advice to electors."

7ZL will conduct another of its popular old-time dance nights, at the Continental Ballroom, on November 15. Special music will be provided by the Continental Orchestra.

Television Works Out Of Doors

TELEVISION has taken another step forward. The actors of the radio screen in previous experiments have had to be highly illuminated by the glare of artificial lights. This intense illumination had to be overcome before television could step from the studio and broadcast outdoor scenes illuminated only by the sun. The engineers of the Bell Laboratories have succeeded in using the rays of the sun, instead of powerful artificial light. They have made the photo-electric cell, the electrical "eye" of radio, much more sensitive. They have built a radio camera which resembles the type employed in a photographic studio. They can point the lens into a football ground, at a baseball match, at Niagara, or at a prize-fight, and can radio a panoramic motion picture view of the scene.

The lens, about five inches in diameter, peeks out of a black hood. Behind the lens is Nipkow's aluminium disk, three feet in diameter, with fifty tiny holes arranged as a spiral, not far from the outer rim. A motor whirls the disk so that each little hole flashes past a given point eighteen times in a second. There are 900 lines of light that "paint" the radio image. So rapidly are these lines made that there is no line structure apparent at the receiving screen. The reproduction looks like a regular motion picture, although it is not quite as clear as the movies of the silver screen. If the sunlight is strong, the picture is clearer. Clouds that shut off the sun make the image look like a photograph taken when the sun is behind the clouds.

How the "Eye" Functions.

The photo-electric cell is shielded from all light except that which reaches it from the lens by housing the cell in a black box in the top of the camera. The duty of the photo-electric cell is to transform the light into electric impulses that actuate the radio transmitter, just as a microphone changes sound into electricity. The variations in the current represent the variations in light and shade of the scene to which the lens is exposed. The variations must be of a certain intensity, otherwise they are obscured by other current variations, which arise from the process of amplification by vacuum tubes, or by interfering currents picked up during transmission, either by wire or radio. The variations of the current caused by the photo-electric cell must be large, compared to those caused by irrelevant and interfering currents, just as speech must be louder to be

understood when there are interfering noises. The large variations in the current from the photo-electric cell require sharp contrast in the scene, and therefore intense illumination has been required in the past. But now the "electric eye" is more sensitive. It does not require such bright light.

Illumination is Necessary.

"The necessity of illumination is well illustrated by the science of photography," says John Mills, of the Bell Laboratories. "Everyone knows that for a so-called 'instantaneous exposure,' a scene must be brightly illuminated—flooded with light, in fact. For a 'time exposure,' correspondingly less illumination is required. Now, in television a photo-electric cell is exposed to each detail of a scene for only about one fifty-thousandth of a second, and so the scene must be highly illuminated. To the human actors, however, in a scene which is to be transmitted by television, strong light would be inconvenient, even though that is what the photo-electric cell requires.

"The solution of the difficulty is based on the physiological phenomenon that it is not so much the instantaneous intensity of the light which bothers us as the average intensity to which we are exposed. A quick flash of intense light produces relatively little inconvenience, due apparently to the sluggishness of that physiological process of sight which is exemplified in the persistence of vision.

"The requirements of high illumination of the scene for the photo-electric cell, and of low average illumination for the human participants, was formerly met by flashing an intense light upon just that small portion of the scene to which at the moment the photo-electric cell should be exposed. Instead, therefore, of placing the shield between the cell and the scene, it is between the scene and a light source. This light is in addition to that which is normal to the scene and its action. As the aperture of the shield moves, a narrow beam from this light scans successive areas of the scene. The illumination of each area is sufficient to cause in the photo-electric cell a current above the 'noise-level' of any interfering currents. In sweeping the scene, the scanning beam rests on each portion for only one twenty-five hundredth of the time. Upon the participants in the scene, therefore, the effect is about the same as if they were continuously exposed to a steady light one twenty-five-hundredth as intense."

Radio Vision Summarised.

The operation of the improved television system is summarised as follows:—At the broadcasting station the sunlight floods the scene to be transmitted. The camera lens picks up the scene, and the photo-electric cell produces current variations corresponding to the variations in light and shade of the scene. These variations, amplified by vacuum tubes, are sent to the broadcasting station, either by wire or by radio. There they are again amplified, and impressed upon a neon tube. This tube glows with a brilliancy corresponding at each instant to the brilliancy of that area of the scene which originated the current. The observer sees the tube through a scanning aperture which moves synchronously with the corresponding aperture which controls the beam of light at the transmitting station. The process of scanning the entire scene, and of exposing the successive areas of the neon tube, occurs in a fraction of time well within the limit for persistence of vision. Hence the eye and brain of the observer perceive the scene as a whole.

The small neon tube, which is viewed through the succeeding holes of the rotating disk in the receiving equipment of the television system for a single observer, is not suitable for a number of observers. For presentation of a scene to an audience there was developed in Bell Telephone Laboratories an apparatus which is conveniently named a "grid" receiver, to distinguish it from the "disk" receiver. In disk reception, the image of the distant scene forms a small bright picture, about two inches by two and one-half inches high. To present an image on a picture plane large enough to be viewed by a considerable audience a different method has to be employed.

So far as the transmitting equipment is concerned, it makes no difference whether it is the disk or the grid which is being used at the receiving station, or even whether or not both are being used simultaneously by being connected in parallel. When the disk equipment is in use its scanning disk must be driven exactly in step with the corresponding disk of the transmitting apparatus. The same motor system is used to drive a brush switch when the grid receiver is operating. This brush then rotates in step with the disk at the transmitting station. It serves to connect the circuit, along which the photo-electric cell is sending its observations, to one after the other of the pairs of electrodes in the grid.

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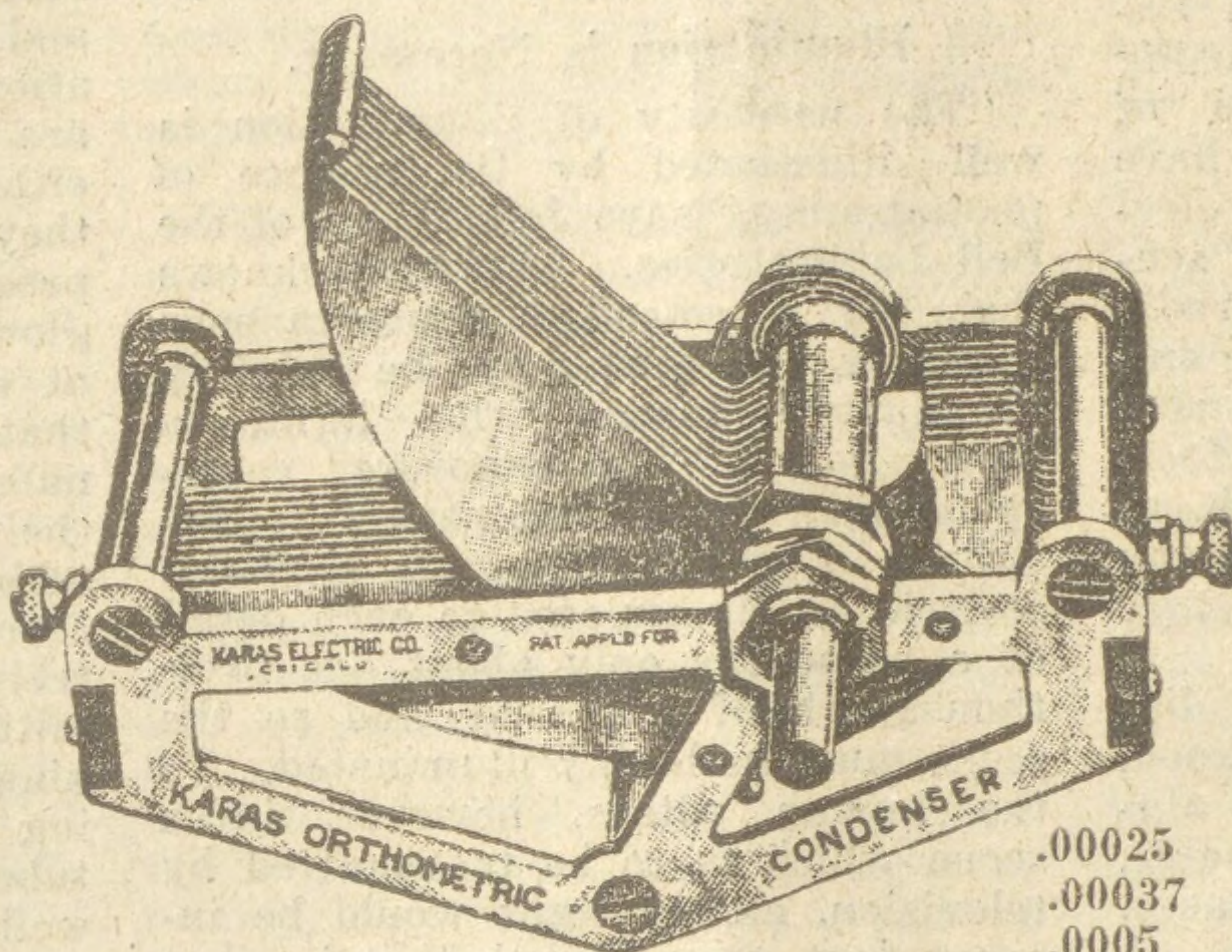
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3 Bakelite Strips for Terminal Boards	0	1	0
4 Single Grid Leak Mountings, at 1/-	0	4	0
1 Wetless, .00025 Grid Condenser and Meg. Leak	0	2	9
3 Renrade .1 meg. Resistances, at 2/3	0	6	9
1 Aerovox .25 meg. Resistances, at 2/3	0	2	3
2 .1 M.F. By-pass Condensers, at 3/9	0	7	6
2 .5 M.F. By-pass Condensers, at 4/6	0	9	0
1 2 M.F. By-pass Condenser	0	7	0
1 Wetless .001 Fixed Condenser	0	1	6
1 A.W.A. Super Audio Choke	0	18	0
1 Ferranti A.F.3 Transformer	2	5	0
1 Wetless .0001 Fixed Condenser	0	1	6
1 Marconi Osram Screened Grid Valve	1	10	0
1 Marconi Osram Screened Holder	0	12	6
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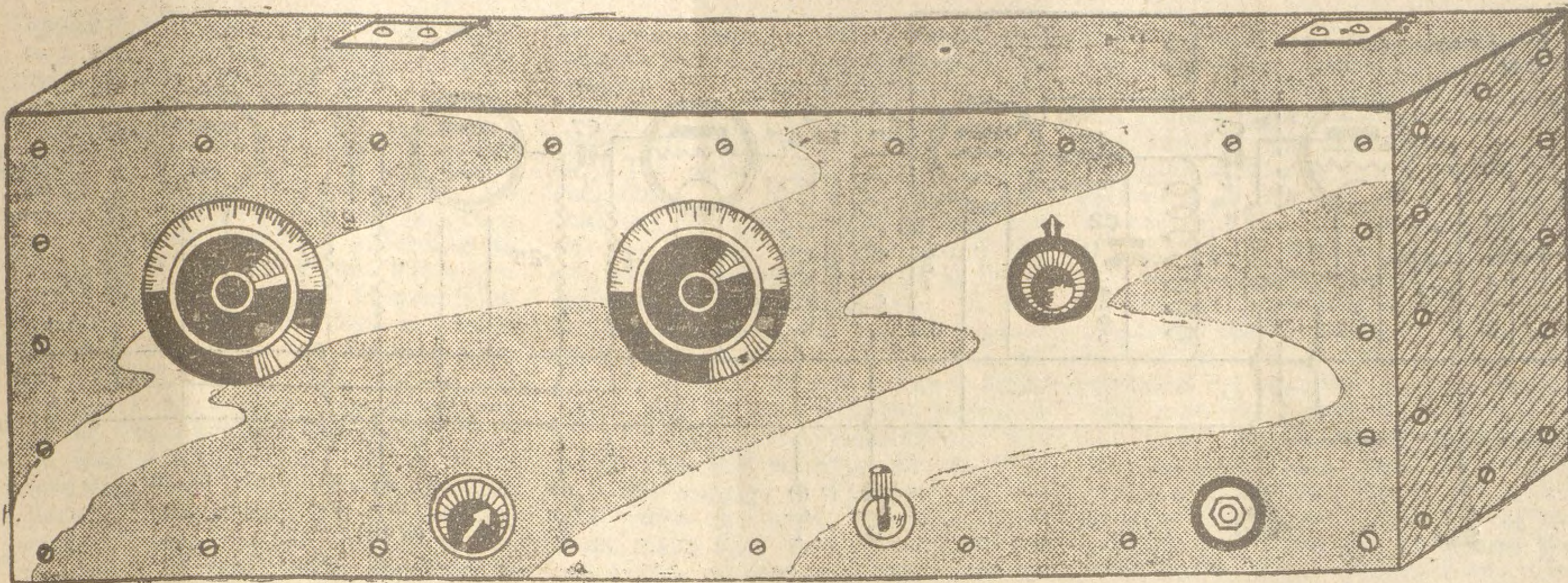
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The Browning Drake Screen Grid Five

By the Technical Editor

One of the most popular of circuits with "Wireless Weekly" readers has been the Browning Drake. All who are making use of the receiver evolved by Messrs. Browning and Drake are enthusiastic about its consistency of performance, and are well satisfied that the single R.F. amplifier stage obtains the utmost possible from a three electrode valve. We must keep time with the steady advancement of progress and investigate thoroughly the possibilities of the increased efficiency of various circuits by the application of the now well known screen grid valve.

To incorporate these valves in some of the more complicated circuit arrangements would only throw the semi or non-technical reader into confusion. The simplest application is typified in the Screen Grid Browning Drake. This article appeared in "Radio" for October, 1928, and is passed on to "Wireless Weekly" readers in view of its simplicity and remarkable performance.

Well worth the adaptation from the conventional Browning-Drake

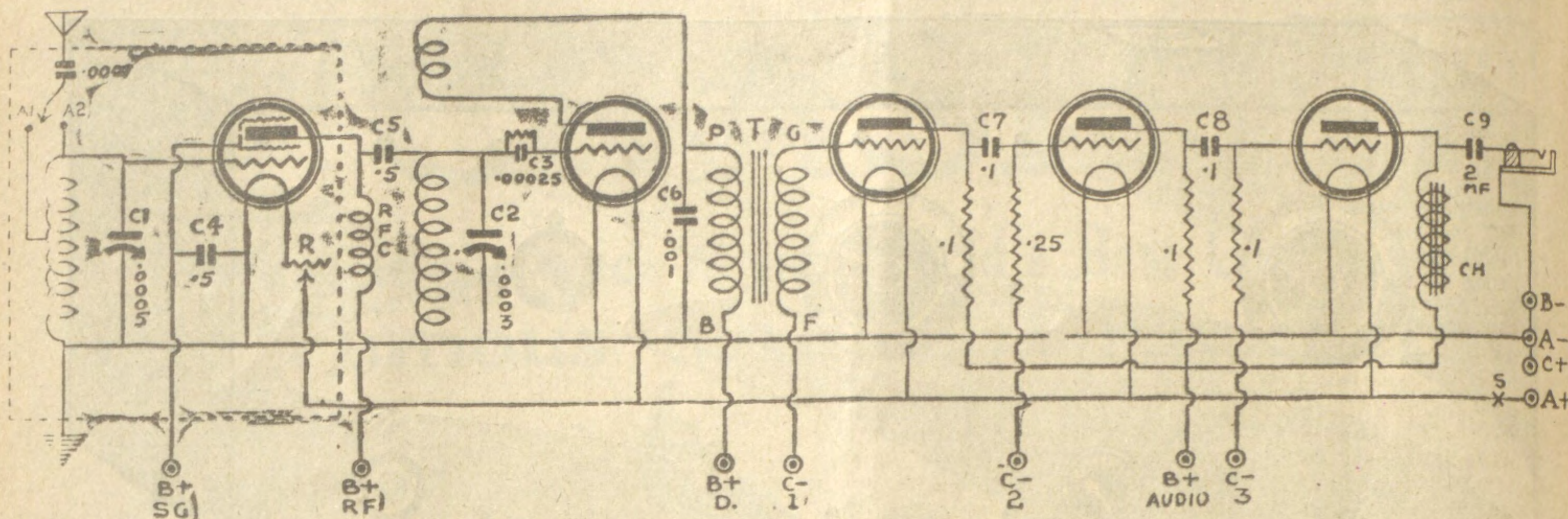
circuit is this version, employing the screen-grid valve as R.F. amplifier! Some radio enthusiasts have recently asked me why I give so much publicity to the screen-grid valve, and what are exactly the advantages of its use. My answer to such questions is that in radio engineering we would be very foolish not to keep pace with developments, especially in a country like Australia, where capital cities are widely separated, and reception with consistency of distant stations not by any means an easy matter. The advantages of this valve are such that in the first place, it

actually renders the three-electrode valve a "back-number" as an R.F. amplifier in modern application. I wonder how many are using receivers employing three-electrode valves as R.F. amplifiers—and are blissfully unaware that the R.F. stage, or stages, are really detrimental to the set for the reason that they are in a state of continuous oscillation? The word neutralisation sounds formidable to many who are not technically familiar with radio, and the application thereof. They do not know the meaning of neutralisation, nor do they want to know. They bought a set

and they just want to listen to the programmes. (Naturally.) No! they have not tampered with anything except one evening when they thought they would see what difference it made turning that little brass thing round on the baseboard. Since then the music and speech has been woolly, and they have never been able to get 3LO as before—all of which goes to point out the de-neutralisation of what is probably a perfectly good Browning-Drake receiver. The service man will locate the trouble quickly,

PARTS REQUIRED.

- | | |
|---|--|
| 1 Aluminium Panel, 24 x 8 in. (14 gauge). | 1 Electrad .00025 Grid Condenser and 5 meg. leak. |
| 1 Aluminium Sub-panel, 24 x 8 in. (14 gauge). | 3 .1 meg. Resistances. |
| 1 Aluminium Sheet, 8 x 6 in. (14 gauge). | 1 .25 meg. Resistance. |
| 2 Radiokes Standard Screening Boxes. | 2 .1 T.C.C. Fixed Condensers. |
| 1 Radiokes 1928 Browning-Drake Kit. | 2 .5 T.C.C. Fixed Condensers. |
| 1 Radiokes R.F. Choke. | 1 2 mfd. T.C.C. Fixed Condenser. |
| 4 A.W.A. or Benjamin UX Anti-Vibration Valve Sockets. | 1 .001 Fixed Condenser. |
| 1 .0005 Gecophone S.L.F. Variable Condenser. | 1 A.W.A. Super-audio Choke (or old transformer). |
| 1 .0003 Gecophone S.L.F. Variable Condenser. | 1 Ferranti AF3 Audio Transformer. |
| 1 Single Circuit Jack. | 1 .0001 Fixed Condenser. |
| 1 Filament Switch. | 1 Marconi or Osram S625 Screen Grid Valve and Holder. |
| 1 30 ohm. Pilot Rheostat. | 3 Mullard PM6 Valves. |
| 2 Airzone Sub-panel Brackets. | 1 Mullard PM5 Valve. |
| 14 Terminals and 3 Strips. | 150-Volt "B" Battery, 14-Volt "C" Battery. |
| 2 Electrad Double Grid Leak Mountings. | 16 Tinned Copper Wire, Spaghetti Insulation, 1-8 in. Bolts, Nuts, etc. |



but poor Mr. Everyman cannot, and so puts up with his distorted reproduction and poor performance until in desperation he tries himself—and promptly blows all his valves by tinkering with a screw-driver around bare No. 16 tinned copper wire.

The screen-grid valve will probably not for a long time entirely supplant the three-electrode valve, but it is safe to state that manufacturers of commercial receivers for broadcast reception will, before long, design all their reputable "distance-getting" productions around the screen-grid valve. The reason? Complete stability—the banishment of neutralisation and its losses, and a degree of R.F. amplification before the detector valve which is truly enormous, and completely out of the question with the three-electrode valve.

The manufacturers of commercial receivers are not yet standardising the new valves, as the supplies are limited, but the time is approaching when they will be able to obtain enough to supply the great demand. No matter what make or type of screen-grid valve available—Philips, Osram, Radiotron, Cossor or Marconi—they will all do the work claimed for them with remarkable efficiency if properly applied. Explicit instructions accompany each valve in the carton, and the maker leaves no doubt as to how the valve should be used.

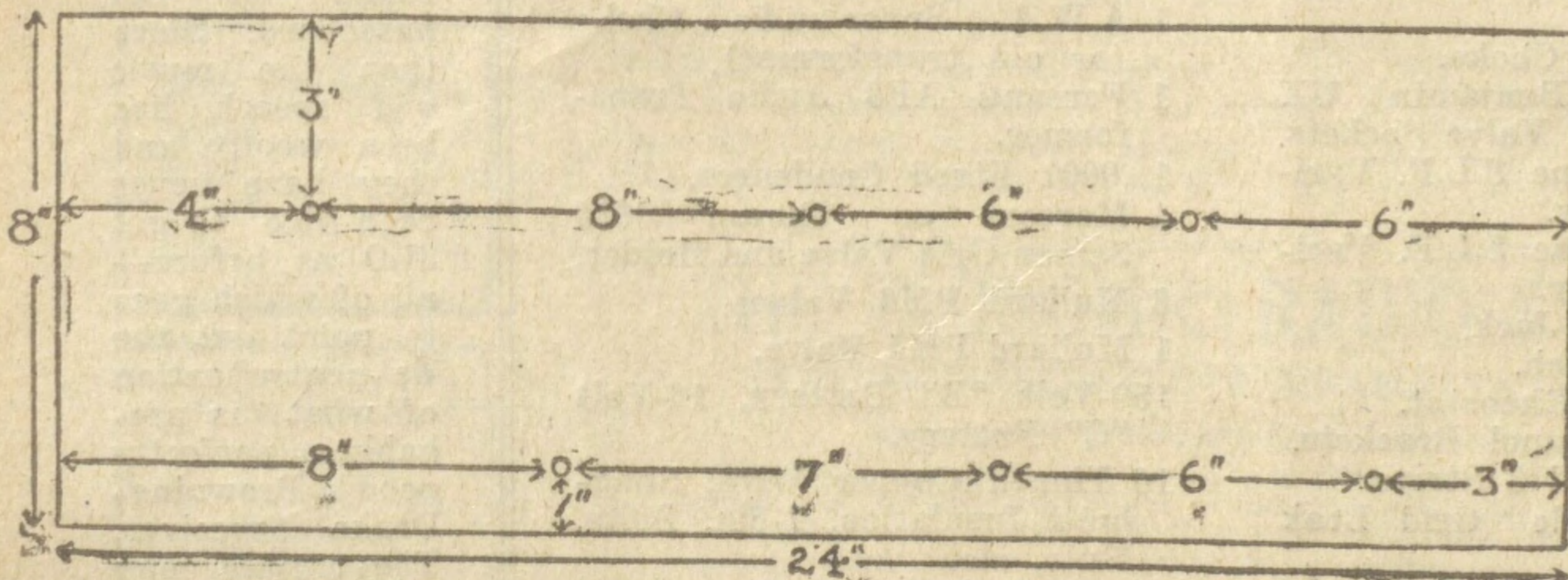
One of the popular circuits most easily adapted to use a screen-grid R.F. amplifier is the Browning-Drake. The Browning-Drake Corporation of America have long since standardised the Radiotron UX-222 screen-grid valve as the R.F. amplifier in this reputable circuit. In Australia we have the advantage of the world markets, and are able to use any of the screen-grid valves now obtainable. Upon deciding to adapt the original to the new version, the Marconi, or Osram S625, was chosen for the receiver described here.

The wiring is simplified as much as possible, only one rheostat is used—on the R.F. stage—and 6-volt valves are used throughout. The results obtained with the Browning-Drake Screen-Grid Five were in excess of the anticipation. When conditions have been good, it has been possible to listen to 2YA, Wellington, New Zealand, at good speaker volume, with an indoor aerial consisting of 25 feet of Electron wire round the picture-rail. Needless to say, stations such as 3LO, 4QG, 5CL and 3AR are consistently strong. Control is far easier than the ordinary Browning-Drake for the reason that the heavy amplification from the R.F. stage is at once apparent, and allows a far greater latitude of reaction control.

As most experimenters and radio enthusiasts know by this time, the

screen-grid valve has two grids, one of which forms a complete screen around the plate. The other is known as the control grid, and corresponds to the grid of the ordinary valve. The advantages of the valve are, briefly: that the capacity between the plate and control grid is extremely small, and that a tremendous amplification is possible, due to the effect of the screening grid on the mutual conductance of the valve. As the capacity between the plate and control grid is so small, it is unnecessary to neutralise. The impedance of the valve is very high, so that it is not possible to use the primary on the radio frequency transformer. (The only exception to this is in the 1928 Solodyne, where a special primary is provided.) Coupling must, therefore, be made directly to the tuned circuit preceding the detector. When direct coupling is used (which makes it auto-transformer coupling), a shunt-feed system is used, employing a $\frac{1}{2}$ mfd. blocking condenser, and a radio frequency choke. This is used in this "modernised" Browning-Drake circuit, as it is very desirable to keep all of the radio frequency current out of the "B" supply. As a consequence, one change is necessary to use the screen-grid valve as the R.F. amplifier. This change provides for the connection of the plate of the valve through a $\frac{1}{2}$ mfd. condenser directly on to the stator plates of the second tuned circuit instead of to the primary of the radio frequency transformer. Thus, the primary winding of the Browning-Drake interstage transformer is not used at all with the screen-grid valve. It is not detrimental to leave it in position, as the constructor may want to try some other circuit, and there is no use in dismantling a perfectly good R.F. transformer.

Again we come to the use of aluminium in receiver design. The radio frequency part of the circuit and the detector, when using the screen-grid valve must be completely shielded. The photographs show the set as it



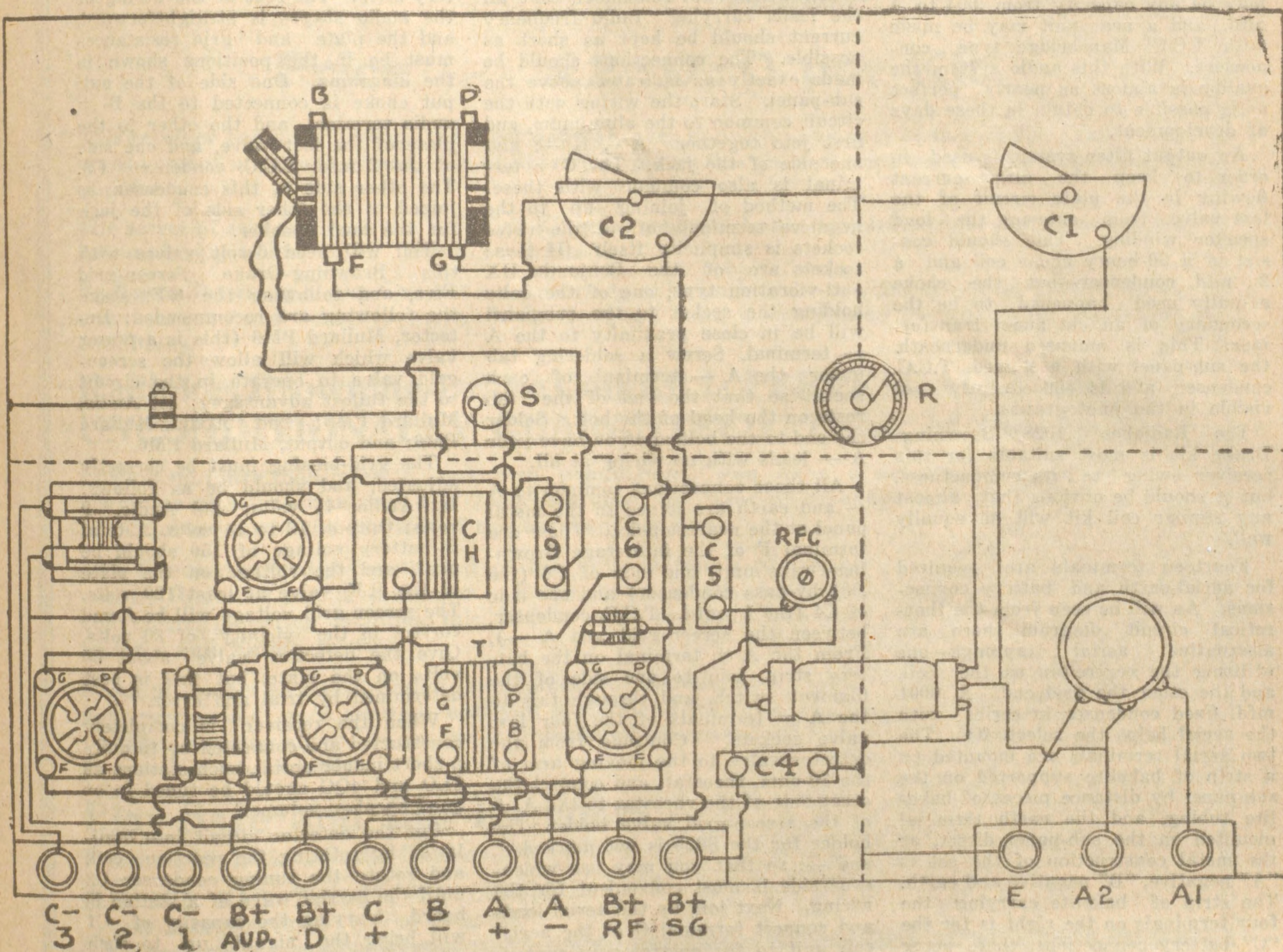
appears with the intervening partition only, but this appearance is for photographic purposes only.

As in the "All-Empire" and other receivers which have been described, the R.F. stage must be completely boxed in. The detector should be similarly dealt with, but this is a case for your own decision according to locality. If you are a reasonable distance away from a local transmitting station, you will only need to screen the R.F. amplifier, but if very close to a local station, then it may be necessary to enclose the whole receiver. The Radiokes Box Shields may be readily adapted for use here by mounting them behind the aluminium panel. These boxes are of the collapsible type, and the method of assembly is to start with the side or end to be used nearest the panel, mounting the variable condenser on this and the coil on the base, and then assembling the other three sides and the cover. Of course, the hole for the S625 valve must be cut in the side next to the partition and the partition itself, to allow the projection of

the plate and screening grid end through to the detector portion of the receiver. If you wish to use the Philips A442 screen-grid valve instead, this valve simply fits the standard UX socket, and is thus totally enclosed in the R.F. box. Remember that the plate connection is the one on the top of the A442, and the screen-grid connection becomes the P terminal of the UX socket. It will be simpler to use 4-volt valves throughout if the A442 is used, although 6-volt detector and audio valves may be used with the provision of a voltage drop resistor for the A442, thus still running the set from a 6-volt supply. Whatever screen-grid valve is used, the set-builder must make sure that the connections are right, otherwise satisfactory results cannot be obtained.

The constructional details of the set are not formidable. The aluminium panel and sub-panel measure 24 x 8 inches, and are assembled in the usual way, with sub-panel brackets. To strengthen the structure, a length of aluminium angle strip should be

bolted along the junction of the panel and sub-panel, underneath the latter. This will result in good rigidity, and the completed set will not bend when you pick it up. The sheet for the partition measures 8 x 6 inches, and is bolted in position by angle strip, as shown. The 30-ohm rheostat for the filament of the screen-grid valve, the filament switch and the single-circuit jack are all insulated from the metal panel. Clearance holes must be drilled and the components mounted on bakelite or other insulating material bolted to the back of the panel underneath the sub-panel. The measurements are given in a template diagram. The variable condensers are Gecophone, either of the straight-line frequency or square law slow-motion type. The first one, tuning the R.F. stage, is of .0005 mfd. capacity; and the second, tuning the detector, .0003 mfd. These capacities are just right for the Radiokes 1928 Browning-Drake kit used. These condensers are mounted on the panel without insulation, as the rotors of both are common to earth—which is



the metal. The locking device for the Gecophone condensers allows for a panel 3-16-inch or 1-inch thick, so that it is necessary to provide a distance washer to take up the space. A 3-8 inch spring washer is quite suitable, and holds the condenser firmly in place when the locking nut is tightened up.

The audio end of the circuit consists of a high-grade transformer in the first stage, followed by two stages of resistance-coupled amplification. The transformer used is an A.W.A. of $3\frac{1}{2}$ to 1 ratio. An excellent transformer for use in this set is the Ferranti AF3, and is strongly recommended. In order that the constructor may build his own resistance capacity units, these may be made up from Electrad double grid-leak mountings quite easily. The first one in the illustration is an Ediswan R.C. unit which had been lying in the spare parts box for some time. The coupling condenser in this is moulded into the unit. The second one is a double gridleak mounting with the condenser visible underneath the resistances. These coupling condensers may be any capacity from .004 to .1 mfd., and a neat unit may be made with T.C.C. Mansbridge type condensers. With this audio system the quality is almost as nearly perfect as is possible to obtain in these days of development.

An output filter system is used in order to keep the direct current flowing in the plate circuit of the last valve from entering the loud speaker winding. This should consist of a 30-henry choke coil and a 2 mfd. condenser—but the choke actually used happened to be the secondary of an old audio transformer. This is mounted underneath the sub-panel with a 2 mfd. T.C.C. condenser, and is consequently not visible in the photographs.

The Radiokes 1928 Browning-Drake kit is most suitable for this receiver owing to its compactness, but it should be obvious that almost any similar coil kit will do equally well.

Fourteen terminals are required for aerial-earth and battery connections. As will be seen from the theoretical circuit diagram, there are alternative aerial tapings—one utilising the centre-tap on the coil, and the other the grid end. A .0001 mfd. fixed condenser in series with the aerial helps the selectivity. The two aerial terminals are mounted on a strip of bakelite supported on the sub-panel by distance pieces of bakelite tubing, and the earth terminal mounted on the sub-panel direct, as the metal construction of the set is "A" negative, "B" negative and earth. The strip of bakelite carrying the four terminals on the right is for the "C" battery connections, there being

"C" positive and three "C" negatives. The long strip carrying the other terminals hold B + (screen-grid), B + (R.F.), A —, A +, B —, B + (detector), B + (audio).

If the grid condenser is of the Electrad or new Wetless type, it may be mounted direct to the grid terminal of the detector valve socket, as shown in the photographs. The grid-leak has a resistance value of 5 megohms, and is mounted in the clips directly across the condenser.

The fixed condenser over the top of the Browning-Drake R.F. transformer is the .001 (C6), which is bypassed from terminal P of the audio transformer to A negative. The Radiokes R.F. choke will be seen conveniently mounted by its bracket, held by the bolt holding the long terminal strip to the sub-panel.

The wiring is best done by No. 16 or 18 tinned copper wire covered with insulating sleeving. Where leads not common to A — pass through the metal, they must be safely insulated, otherwise a holocaust of valves will be the result. When wiring up, remember that all the leads carrying radio frequency current should be kept as short as possible. The connections should be made exactly as indicated above the sub-panel. Start the wiring with the circuit common to the aluminium, and first join together A —, B —, and one side of the jack. The C + terminal is also common with these. The method of joining up to the negative terminals of all the valve sockets is simplicity itself. If these sockets are of the Benjamin UX anti-vibration type, one of the bolts holding the socket to the sub-panel will be in close proximity to the A — terminal. Screw a soldering tab under the A — terminal of each socket so that the end of the tab rests on the head of the bolt. Solder the end to the bolt and you have your A — leads with no wiring at all.

All those connections common to A — and earth are joined to the metal panel at the nearest point. These are terminal F of the interstage Browning-Drake unit, one side of C6 (the .001 by-pass condenser) and one side of C4 (the $\frac{1}{2}$ mfd. T.C.C. condenser, between the screen-grid and A —). From the A + terminal on the battery strip, join to one side of the filament switch, and through this to the A + terminals of the four last valve sockets. Continue from the detector valve to the moving arm of the 30-ohm rheostat, and connect the other side of the rheostat to the A + of the screen-grid valve holder. The holder for the S625 is not marked + and —, so that you may use whichever side is most convenient for the wiring. Next join up the aerial leads and connect terminal G of the aerial coil unit to the control grid connec-

tion of the S625 holder. This is the centre tab between the two filament tabs. The stator plates of the tuning condenser C1 are also joined to this. Next connect the screen-grid to the terminal allocated on the battery strip, joining this also to the other side of the by-pass condenser C4. Next from the plate of the screen-grid valve to one side of the coupling condenser C5, and one side of the R.F. choke. The other side of this choke goes to the B + R.F. terminal, and the other side of C5 to terminal G of the interstage transformer. This terminal G is joined in the usual manner through the grid condenser and leak (C3) to the grid of the detector valve, and to the stator plates of the tuning condenser C2. Now we deal with the reaction coil which, in the 1928 Radiokes kit, is arranged to rotate through a complete circle. Join P to the plate terminal of the detector valve, and B to the P terminal of the audio transformer, and the other side of C6. B + of this transformer is joined to the B + detector terminal on the battery strip. The rest of the wiring of the audio stages is straightforward, and the plate and grid resistances must be in the positions shown in the diagrams. One side of the output choke is connected to the B + audio terminal, and the other to the plate of the last valve, and one side of the 2 mfd. T.C.C. condenser C9. The other side of this condenser is joined to the other side of the jack for the loud speaker.

You will need 6-volt valves with this Browning-Drake Screen-grid Five, and following the R.F. stage the following are recommended: Detector, Mullard PM6 (this is a power valve which will allow the screen-grid valve to operate in the circuit to the fullest advantage); 1st Audio, Mullard PM5; 2nd Audio, Mullard PM6; and output, Mullard PM6.

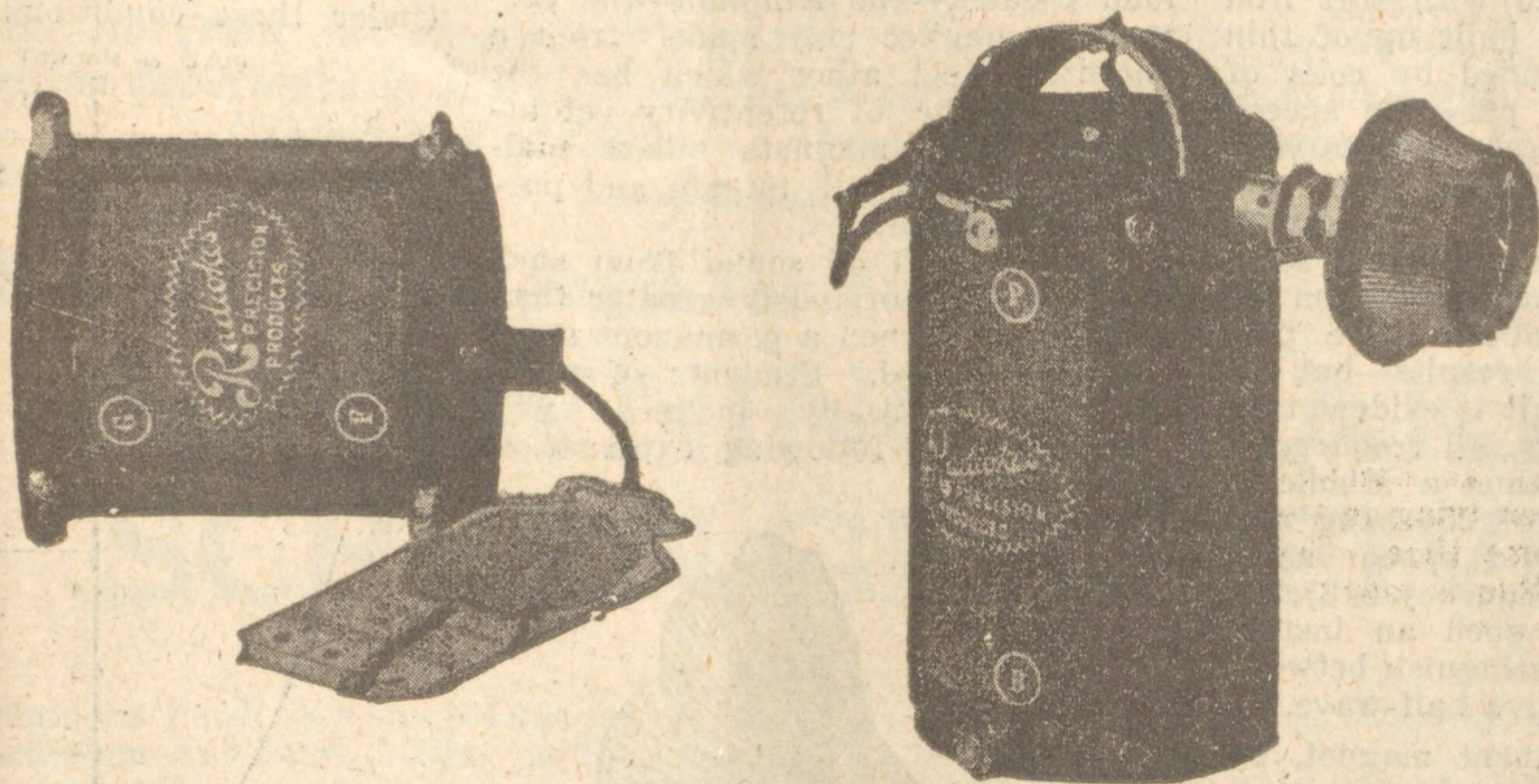
The grid-biasing must be correctly adjusted, and should be as follows: 1st Audio, $4\frac{1}{2}$ volts; 2nd Audio, 9 volts; Output, 12 to 14 volts. A total B battery voltage of 150 should be used, and the voltage on the plate of the R.F. valve at least 120 volts. The screen-grid voltage will be found correct in the vicinity of 80 volts. Give the detector valve about 50 volts on the plate, but this is best determined by trial and error.

When the receiver is completely constructed and connected up to quite a short indoor aerial, such stations as 3LO and 4QG should be tuned in at good speaker volume.

Put the detector circuit into oscillation by rotating the reaction coil, and rotate the tuning condenser C2 until the carrier wave of a station is heard. Varying the capacity of C1 will bring the signal up to such volume as to "swamp" the detector

Radiokes 1928 Browning-Drake

is specified in this issue for adopting this popular Receiver for Screen-Grid operation



Price - £2 : 0 : 0 per Kit

This receiver has been perhaps the most popular ever known in any part of the world. This latest improvement in sensitivity and ease of operation places this receiver once more in the front rank of popularity.

The secret of success lies in the R.F. Coil Kit employed; so do not jeopardise your chance of success by employing unknown or "cheap" coil kits.

Radiokes Browning-Drake Coil Kit is acknowledged by authorities as being the finest procurable on any market, and what is more, it is designed and manufactured essentially for Australian conditions.

Radiokes Browning-Drake Coil Kit is PERPETUALLY and UNCONDITIONALLY GUARANTEED—Think of that!

Costing no more than inferior, unknown productions; you have a definite guarantee of satisfaction and a lifelong assurance that wear or breakage will not deprive you of the services of this excellent product.

This Kit is excellently constructed of the best materials procurable and by Radiokes master craftsmen. Being quite small and having convenient mounting facilities, this Kit is easy to build into your receiver and simple to wire.

Being of correct electrical design and precision manufacture, your success is at once assured, and you are obliged to waste no time "messaging about" to get your completed receiver to function satisfactorily.

Play Safe and Buy Radiokes

From all High-class Radio Dealers everywhere

**CLIP AND MAIL THE COUPON OPPOSITE
AND HEAR SOMETHING TO YOUR ADVANTAGE.**

RADIOKES WANTS TO HELP YOU—MAIL THIS COUPON TO-DAY.
METROPOLITAN ELECTRIC CO., LTD.,
 27-29 King Street, Sydney, N.S.W.
 Gentlemen,—
 As I am interested in the construction of up-to-date receivers,
 please forward at once, information, diagrams, etc., offered by
 you, and keep me posted with further developments in modern
 radio. No money is included, as this offer is free, with
 no obligation of any kind.

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TRADE NOTES

Why there is a Magnet in a Loud Speaker

MOST radio users are aware that there is a strong permanent magnet in every normal loud speaker or headphone—that this magnet is fitted with soft iron pole pieces (usually built up of thin laminations) surrounded by coils of wire through which pass the speech currents and that these currents vary the pull of the magnet upon the metal diaphragm or end, thus giving rise to audible sounds. It would seem at first sight that a winding on an unmagnetised coil would give perfectly satisfactory results—but it would not do so, for it is evident that amongst other things, all frequencies would be doubled; thus a Middle C having a frequency of 256 sung into the microphone, would appear as C an octave higher (frequency 512), the reason being that such an instrument is unable to distinguish between a positive and negative half-wave.

The strong permanent magnet, by reason of its power of attraction, places the diaphragm under a strain and under this pull the latter assumes more or less a saucer shape; the effect of this is that as the current in the energising coils passes through zero and reverses, the diaphragm continues its motion, instead of apparently retracing its steps.

Browning Drake Screen Grid Five
(Continued)

circuit. Do not be afraid of oscillation. The set will not radiate to any noticeable degree, and your neighbor's peace will be undisturbed.

The settings of C1 and C2 should read practically alike for all stations, although sometimes a slight variance of capacity in condensers of different makes will cause a little difference in the readings.

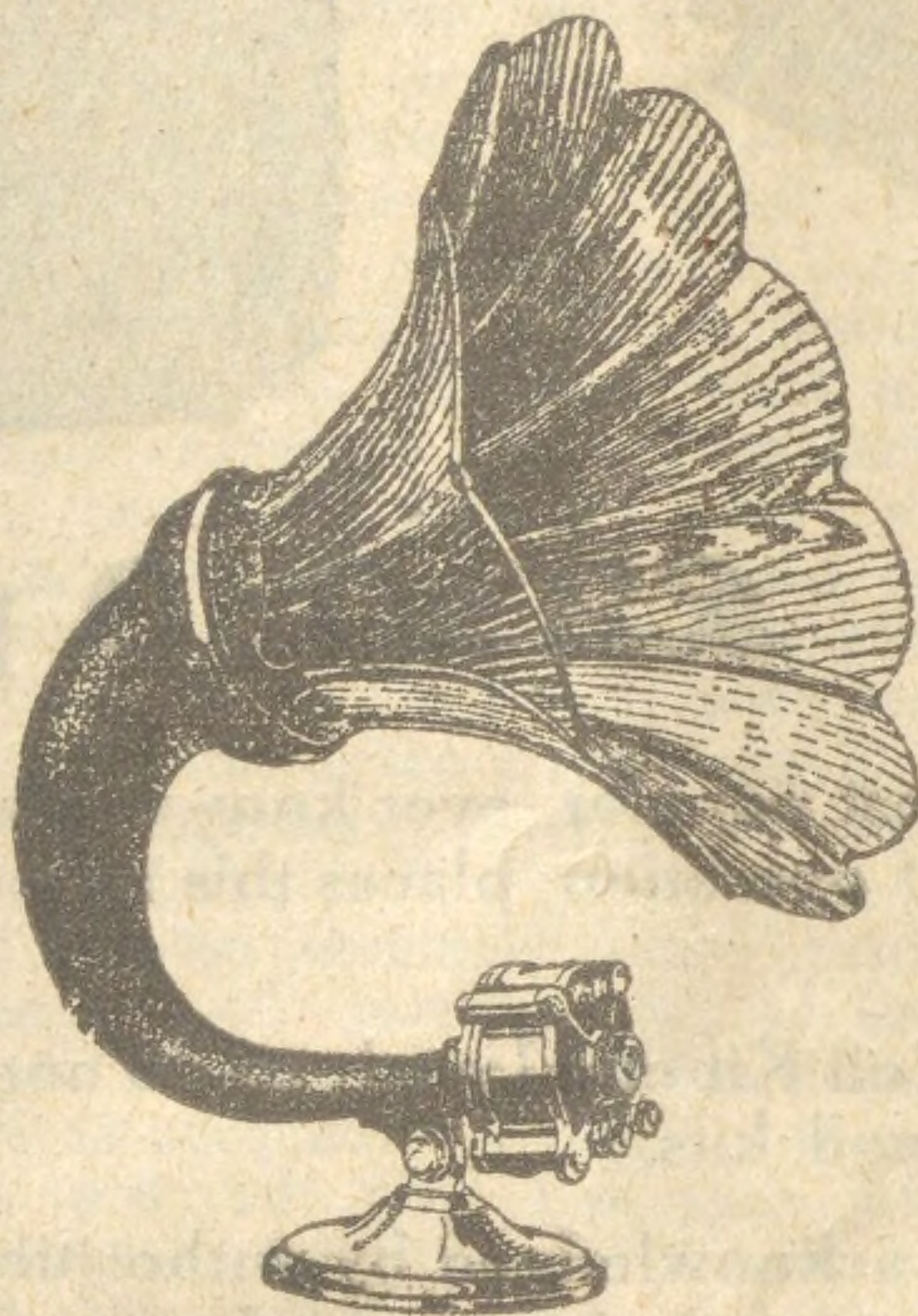
Too much cannot be said in favor of the screen-grid valve as a radio frequency amplifier. The amplification with this screen-grid Browning-Drake was so great that the one-stage with the regenerative detector on a 20-foot indoor aerial gives as much volume as the writer ever obtained with any receiver.

A final word about the selectivity. Do not leave the receiver as shown in the photographs, but close in the R.F. and detector stages entirely. This will render the receiver as sharp in tuning as is possible without the use of a wave-trap.

As good as the original Browning-Drake was, its disciples will realise the difference once they have used the Browning-Drake Screen-grid Five.

It is obvious that such a magnet to be useful must be capable of retaining its magnetism almost indefinitely. In one well-known make of loud speaker—the Amplion—the permanent magnet is made from a patented steel alloy which has the highest factor of retentivity yet attained. Such magnets unless maltreated, are to all intents and purposes permanent.

The strength of sound from such a system is enormously greater than that possible when a permanent magnet is not used. Students of wireless, mathematically inclined, will appreciate the following explanation of this fact.



A Typical Amplion Speaker. The Popular AR 19.

If P is the pull exerted by the magnetism acting up the diaphragm and M the strength of the magnetism, then P is proportional to M^2 , so that we may write $P=KM^2$, where K is constant.

When the magnetism M is increased by the small amount of dM , the pull will be increased by the small amount dP .

$$P+dP=K(M+dM)^2$$

$$K(M^2+2MdM+dM^2)$$

Now dM^2 , the square of a small quantity is negligible, so that it may be omitted, and P cancels with KM^2 leaving

$$dP=2kMdM$$

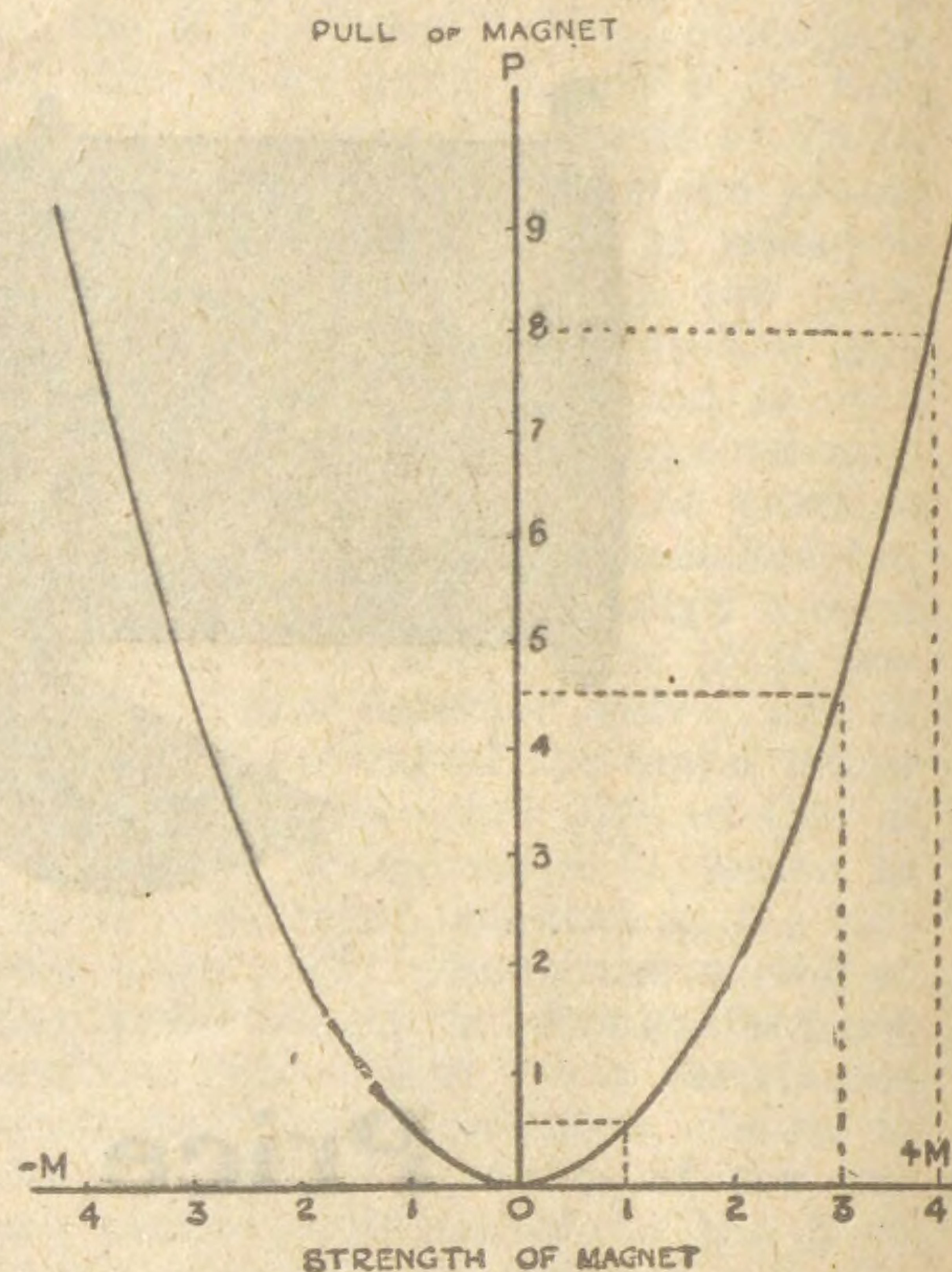
From which it is clear that the increase in pull dP due to the increase in magnetism dM is proportional to dM multiplied by M , the strength of the permanent magnet.

If there is no permanent magnet, M is equal to 0, and the pull on the magnet dP is proportional to the very small quantity dM^2 , which we have neglected. If there is a strong permanent magnet M is large—the

product $M + dM$ is large, and so therefore is dP , upon which value the volume of sound depends.

This interesting point may be considered from another angle. Consider the graph of the equation $P = KM^2$. This shows the relation between the pull P and the strength of magnetism M .

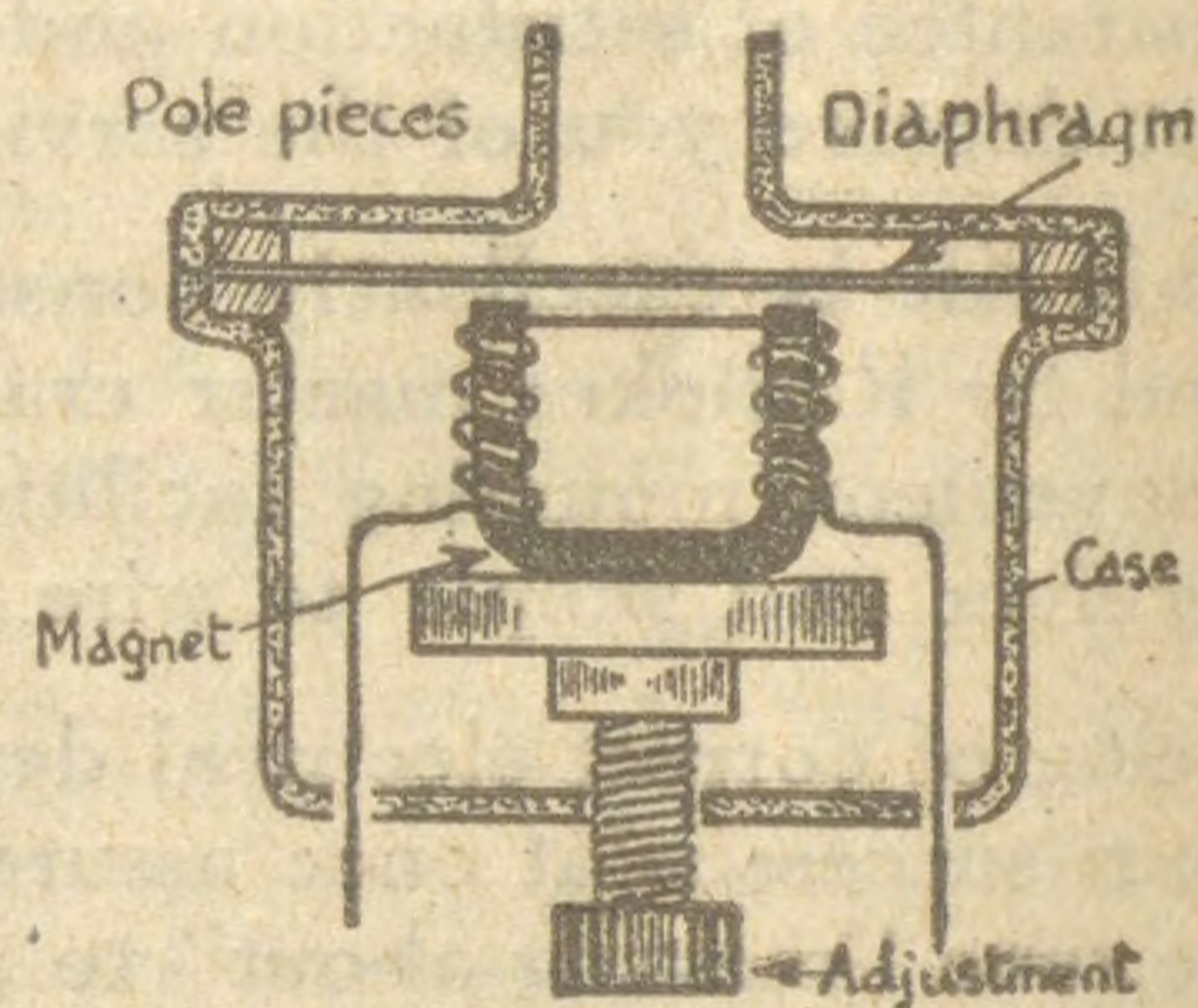
Supposing that there was no permanent magnet, so that $M = 0$. Under these conditions the pull P



Graph showing relation between the "pull" and "strength" of a magnet.

would also be 0, and the graph shows that variations in the pull, i.e., in M , will have the same effect whether positive or negative, so that every frequency would be doubled.

Further, owing to the flatness of the graph at zero, changes of magnetism M have very little effect upon the value of P , the pull so that under these conditions the sensitivity is very low. A change in magnetism from $M=0$ to $M=1$ involves only a change of in pull P of only 0.5, whereas a change from $M=3$ to $M=4$



Section of a typical loud speaker unit.

causes P to change from 4.5 to 8. Hence the universal adoption of the permanent magnet, which has the effect of displacing the zero and bringing the working point to a sensitive region.

Build Your Own Receiver

Come and see us! Without obligation we will be delighted to show you how simply and how cheaply you can build a most efficient Radio Receiver for yourself. You require no great knowledge. We gladly offer you every assistance. With our extensive experience in Wireless matters behind you, success is assured, without the slightest risk of failure. Absolute satisfaction guaranteed.

Below is a list of parts for building the

BROWNING-DRAKE SCREEN-GRID FIVE

	£	s.	d.		£	s.	d.
1 Aluminium Panel 24 x 8in. (14 gauge)	0	6	8	3 .1 Meg. Resistances, Electrad Metal-			
1 Aluminium Sub-panel, 24in. x 8in. (14-gauge)	0	6	8	lised	0	10	6
1 Aluminium Sheet, 8in. x 6in. (14-gauge)	0	1	8	1 .25 Meg. Resistance, Electrad Metal-	0	3	6
2 Radiokes Standard Screening Boxes	1	10	0	lised	0	7	6
1 Radiokes 1928 Browning-Drake Kit	2	0	0	2 .1 Mansbridge Fixed Condensers	0	10	0
1 Radiokes R.F. Choke	0	8	6	2 .5 Mansbridge Fixed Condensers	0	7	0
4 Emmco U.X. Anti-vibration Valve Sockets	0	10	0	1 2 Mfd. Mansbridge Fixed Condenser	0	2	0
1 .0005 Gecophone S.L.F. Variable Condenser	1	17	0	1 .001 Fixed Condenser	0	18	0
1 .0003 Gecophone S.L.F. Variable Condenser	1	17	0	1 A.W.A. Super-Audio Choke	2	5	0
1 Single Circuit Jack	0	1	7	1 Ferranti AF3 Audio Transformer	0	2	0
1 Filament Switch	0	2	0	1 .0001 Fixed Condenser	1	10	0
1 30 ohm. Electrad Rheostat	0	3	6	1 Marconi or Osram S-625 Screen Grid Valve and Holder	2	0	6
2 Airzone Sub-panel Brackets	0	3	6	3 Mullard PM6 Valves	0	13	6
14 Terminals	0	3	6	1 Mullard PM5 Valve	0	12	6
3 Strips Bakelite	0	1	0	1 Columbia 22½-Volt "B" Battery	3	15	0
2 Electrad Double Grid Leak Mountings	0	9	0	3 Columbia 45-Volt "B" Batteries	0	8	3
1 Electrad .00025 Grid Condenser and 5 Meg. Leak	0	3	0	18 Lengths Tinned Copper Wire	0	1	3
				3 Lengths Spaghetti	0	1	3
				2 Doz. N.P. ½ x 1-8 Screws with Nuts	0	2	0
				2 Doz. Brass ½ x 1-8 Screws with Nuts	0	1	6

Improve your Reception

Ninety per cent. of bad reception is due to Battery Troubles and Inferior Loud Speakers. We can supply the best accessories procurable on the easiest Terms, which make the total outlay only a few shillings per week.

METROPOLITAN.—2/- in the £ Deposit and Balance in Five Months.

COUNTRY.—5/- in the £ Deposit and Balance in Five Months.

"COLMOVOK" RECEIVERS.—Two to Eight Valves; Cash or Terms—Deposits from £3.

Colville Moore Wireless Supplies Limited

10 Rowe Street (Next Hotel Australia), Sydney

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PRICE, £3/15/

Junior £5/5/-

**Philips De Luxe Speaker
"PCJJ" £6/10/-**

A CRITERION!

The Baby Grand Piano! A term that immediately suggests a piano gracing the home of one who demands the best as his right.

Appreciating this, we unhesitatingly named our unique septagonal speaker the "Baby Grand," for here was a reproducer which glowed with personality whose sheer beauty was obvious from but a cursory glance, a speaker that stood gloriously apart from its fellows.

Its frank and unswervingly faithful reproduction, have, in but a few months, made it a loudspeaker respected and admired by all, as something "different"—something not to be compared with, but rather to be compared by—in short a criterion.

PHILIPS

LOUD SPEAKERS

BROADCASTING PROGRAMMES

For the COMING WEEK

Friday, November 9

New South Wales Broadcasting
Company, Limited.

2FC, SERVICE.

Wave Length, 442 metres.

EARLY MORNING SESSION.

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

MORNING SESSION.

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

MIDDAY SESSION.

- 11.55 a.m.—From the Sydney Cricket Ground: Details of the International Cricket Match, England versus New South Wales, to be played to-day.
- 12.1 p.m.—From the Studio: Stock Exchange, first call.
- 12.3 p.m.—Official weather forecast, rainfall.
- 12.5 p.m.—From the Sydney Cricket Ground: Description of the play and progress scores, England versus New South Wales.
- 1.30 p.m.—From the Studio: Stock Exchange, second call.
- 1.32 p.m.—Weather forecast.
- 1.34 p.m.—"Evening News" midday news service.
- Producers' Distributing Society's Report.
- 1.42 p.m.—Rugby wireless news.
- 1.45 p.m.—Studio Music.
- 2 p.m.—"Big Ben." Close down.

AFTERNOON SESSION.

- 2.30 p.m.—Programme announcements.
- 2.32 p.m.—Educational Session for the Schools: Adventure—General Topics, interspersed with suitable music.
- 3 p.m.—"Big Ben."
- Raymond Lambert, Belgian pianist:
 - (a) "Impromptu in A Flat" (Schubert).
 - (b) "Polonaise in A Flat" (Chopin).
 - (c) "Prelude G Minor" (Rachmaninoff).
 - (d) "Clair de Lune" (Debussy).
- 3.15 p.m.—From the Sydney Cricket Grounds: Continuation of the description of play in the International Cricket Match, England versus New South Wales, with progress

scores at intervals until the afternoon tea adjournment at 4 p.m.

- 4 p.m.—"Big Ben." From the Studio: Marjorie Mayne, mezzo:
 - "I Hear a Thrush at Eve" (Cadman).
 - (b) "Melisande in the Wood" (Goetz).
- 4.7 p.m.—Raymond Lambert, Belgian pianist: "Naila" Valse (Delibes-Dohnany).
- 4.15 p.m.—From the Sydney Cricket Ground: Descriptions and scores of the International Cricket Match, England versus New South Wales.
- 5 p.m.—"Big Ben." Close down.
- Note.—2BL will continue to describe Cricket Match until stumps drawn at 6 p.m.

EARLY EVENING SESSION.

- 5.40 p.m.—The chimes of 2FC.
- 5.45 p.m.—The Children's Session, conducted by the "Hello Man." Letters and stories.
- 6.10 p.m.—The "Farmyard Five," from Kookaburra Gully.
- 6.30 p.m.—Dalgety's Market Reports (wool, wheat and stock).
- 6.40 p.m.—Fruit and vegetable markets.
- 6.43 p.m.—Stock Exchange information.
- 6.45 p.m.—Weather and shipping news.

- 6.48 p.m.—Rugby wireless news.
- 6.50 p.m.—Late sporting news told by the 2FC Racing Commissioner.
- 7 p.m.—"Big Ben." Late news service.
- 7.10 p.m.—Dinner Music.

NIGHT SESSION.

- 7.40 p.m.—Programme announcements.
- 7.47 p.m.—Studio music.
- 7.50 p.m.—Cricket resume for New Zealand listeners.
- 7.52 p.m.—Pianoforte reproduction.
- 7.57 p.m.—Florence Yates, Contralto: "The Glory of the Sea" (Sanderson).
- 8 p.m.—"Big Ben."
- The N.S.W. Broadcasting Company's Orchestra, Conducted by Willie Redstone.
- 8.15 p.m.—Florence Yates, Contralto:
 - (a) "Spring Sorrow" (John Ireland).
 - (b) "Over the Steppe" (Gretchaninoff).
- 8.22 p.m.—The N.S.W. Broadcasting Company's Orchestra.
- 8.35 p.m.—From Farmer's Luncheon Hall: Musical items at the reception to Gerald Peachell, by the Royal Philharmonic Society. Speech of Welcome by the President, and Mr. Peachell's reply.

New South Wales Broadcasting Company Limited Coming Features of the Week

2FC Service

FRIDAY, 9th NOVEMBER:

- 6.50 p.m.—Racing Commissioner.

SATURDAY, 10th NOVEMBER:

- 11.30 a.m.—"Redgum": Gardening.

MONDAY, 12th NOVEMBER:

- 8.15 p.m.—Graham Kent, bridge talk.

TUESDAY, 13th NOVEMBER:

- 8.15 p.m.—E. B. Jones: African Tales.

WEDNESDAY, 14th NOVEMBER:

- 9.15 p.m.—Dr. T. J. Henry: "Vignettes of the Pacific Islands."

THURSDAY, 15th NOVEMBER:

- 7.50 p.m.—Captain Fred Aarons.

MUSIC—COMEDY—DRAMA

FRIDAY, 9th NOVEMBER:

- 9.18 p.m.—2nd Act of "The Patsy," by courtesy of J. C. Williamson, Ltd.

SATURDAY, 10th NOVEMBER:

- 8.0 p.m.—Concert from Central Hall, Newcastle.

SUNDAY, 11th NOVEMBER:

- 8.30 p.m.—Concert from Central Hall, Newcastle.

MONDAY, 12th NOVEMBER:

- 8.0 p.m.—Light Music Quartette.

TUESDAY, 13th NOVEMBER:

- 9.30 p.m.—"Round the Camp Fire," by Upton Brown.

WEDNESDAY, 14th NOVEMBER:

- 8.45 p.m.—Studio Production of "Katinka," by Mosman Musical Society.

THURSDAY, 15th NOVEMBER:

- 8.37 p.m.—Spanish Programme, arr. by Cyril Monk.

FRIDAY, 9th NOVEMBER:

- 10.20 a.m.—Mr. Cooper, Gardening.

SATURDAY, 10th NOVEMBER:

- 8.15 p.m.—Jack Cannot: Experiences of the Stage.

TUESDAY, 13th NOVEMBER:

- 8.20 p.m.—Basil Kirke: "Wanderings thro' Tropic Seas and Coral Isles."

FRIDAY, 9th NOVEMBER:

- 8.30 p.m.—Carlton and Shaw: Instrumentalists.

SATURDAY, 10th NOVEMBER:

- Descriptions from the Speedway Royal.

SUNDAY, 11th NOVEMBER:

- 8.30 p.m.—Manly Band.

MONDAY, 12th NOVEMBER:

- 8.30 p.m.—"The Four Bright Spirits"

TUESDAY, 13th NOVEMBER:

- 9.15 p.m.—Molly de Gunst, Soprano.

WEDNESDAY, 14th NOVEMBER:

- 8.15 p.m.—H. W. Varna Company: "Mr. Pim Passes By."

THURSDAY, 15th NOVEMBER:

- 9.20 p.m.—Dulcie Starkey and Edmund Lecchi, Duets.

8 p.m.—"Big Ben." Late Weather forecast.
The N.S.W. Broadcasting Company's
Orchestra.

9.15 p.m.—Florence Yates, Contralto:
"Dream in the Twilight."

9.17 p.m.—Foreword to the next item.

9.18 p.m.—From the Criterion Theatre (by
permission of J. C. Williamson, Ltd.) The
Second Act of the New American Comedy,
by Barry Connors, "The Patsy," featuring
Irene Homer (first appearance in Sydney),
A. S. Byron, and Sam Wren. (The play
produced by Georg D. Parker.)

Cast of Characters:

Mr. Harrington A. S. Byron
Mrs. Harrington Vera Gerald
Grace Harrington Eileen Sparks
Patricia Harrington Irene Homer
Tony Anderson Brandon Peters
Billy Caldwell Sam Wren
Scene—Act Two—Living Room of the
Harrington's.

10.12 p.m.—From the Studio:

The N.S.W. Broadcasting Company's Or-
chestra, conducted by Willie Redstone.

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

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

2BL, SERVICE.

Wave Length, 353 Metres.

FRIDAY, 9th NOVEMBER, 1928.

MORNING SESSION.

8 a.m.—G.P.O. Clock and chimes.

Metropolitan Weather report.

8.1 a.m.—State Weather report.

8.2 a.m.—Studio music.

8.15 a.m.—G.P.O. Clock and chimes.

News from the "Daily Telegraph Pictorial."

8.25 a.m.—Studio music.

8.30 a.m.—G.P.O. Clock and chimes.

Studio Music.

8.35 a.m.—Information, mails, shipping, ar-
rivals, departures and sailings.

8.38 a.m.—News from the "Daily Telegraph
Pictorial."

8.45 a.m.—G.P.O. Clock and chimes.

Studio music.

9 a.m.—G.P.O. Clock and chimes.

Studio music.

9.30 a.m.—Half an hour with silent friends.

10 a.m.—G.P.O. Clock and chimes.

Close down.

MIDDAY SESSION.

11 a.m.—G.P.O. Clock and chimes.

Women's Session.

Sporting talk by Miss Gwen Varley, Women's
Sports Authority.

11.15 a.m.—Talk on Electricity in the Home.

12 noon.—G.P.O. Clock and chimes.

Special Ocean forecast and weather report.

12.3 p.m.—Studio music.

12.30 p.m.—Shipping and mails.

12.35 p.m.—Market reports.

12.48 p.m.—"Sun" midday news service.

1 p.m.—Studio music.

1.30 p.m.—Talk to children and special enter-
tainment for Children in Hospital.

2 p.m.—G.P.O. Clock and chimes.

Close down.

AFTERNOON SESSION.

2.15 p.m.—G.P.O. Clock and chimes.

From the Sydney Cricket Ground. Descrip-
tion of play in the International Cricket
Match, England versus N.S.W.

3.15 p.m.—Close down.

3.45 p.m.—G.P.O. Clock and chimes.

Romano's Restaurant Dance Orchestra,
broadcast from Romano's.

3.55 p.m.—Miss Florence Day, contralto:

(a) "My Ships" (Barratt).

(b) "Little Lady of the Moon" (Coates).

4.1 p.m.—Romano's Restaurant Dance Orches-
tra.

4.10 p.m.—"Sun" News service.

4.20 p.m.—Miss Ella Goodman, soprano:

(a) "Morning" (Oley Speaks).

(b) "Valse Song from Romeo and Juliette"
(Gounod).

4.27 p.m.—Talk on "Influence and affluence as
applied to stage career, by Jack CANNOT.

4.42 p.m.—Miss Kathleen Roe, pianist:

(a) "Etude" (Arensky).

(b) "Cravoivienne Fantastique" (Paderew-
ski).

4.49 p.m.—Miss Ella Goodman:

(a) "Birds in the Nest" (Chovéaux).

(b) "Lullaby" (Scott).

4.55 p.m.—Miss Kathleen Roe:

"Four Preludes" (Scriabin).

"Two Preludes" (Rachmaninoff).

5 p.m.—From the Sydney Cricket Ground:

Description of the International Cricket
Match, England, versus New South Wales.

EARLY EVENING SESSION.

6 p.m.—Children's letters and stories.

6.30 p.m.—"Sun" news and late sporting.

6.40 p.m.—Gulbransen Dinner Music.

7.10 p.m.—Australian Mercantile Land and
Finance Co.'s report.

Weather report and forecast by courtesy of
Govt. Meteorologist.

Producers Distributing Society' Fruit and
Vegetable Market report.

Grain and Fodder report ("Sun.")

7.25 p.m.—Pim and Pam in advertising talks
and nonsense.

7.55 p.m.—Programme and other announce-
ments.

EVENING SESSION.

8 p.m.—G.P.O. Clock and chimes.

Mr. Norman Wright, tenor:

(a) "I Love thee" (Pointer).

(b) "Gambols on the green" (Brunten).

8.7 p.m.—Carlton and Shaw, entertainers.

8.17 p.m.—The Wurlitzer Organ, broadcast
from the Arcadia Theatre, Chatswood.

Organist, Mr. N. Robins.

8.25 p.m.—Radio Eisteddfod: A number of
semi-finalists will be heard, drawn from the
various sections as follows:

Choral Section: Choirs drawn from those
entering under Section 1, Church Choirs;
Section 2, Mixed Choirs; Section 3, Male
Choir; Section 4, Female Choir; Section 5,
Mixed Quartette; Section 6, Male Quartette.

Instrumental Section: Semi-finalists from
the instrumental section include Section 14,
Championship Pianoforte solo; Section 15,
Pianoforte Solo, under 16 years of age.

Popular Section: Semi-finalists from the
Popular Section include Section 27, Popular
Vocalists, Section 28, Section 30, Enter-
tainers.

9.25 p.m.—Talk on "The Prospects of Satur-
day's Races." by Mr. C. Dexter.

9.40 p.m.—Mr. Norman Wright:

(a) "Amor Mio" (Riccardi).

(b) "Because your love is mine" (Dorel).

9.47 p.m.—Carlton and Shaw.

9.57 p.m.—Talk on "Gardening" by Mr. George
Cooper.

10.12 p.m.—The Wurlitzer Organ broadcast
from the Arcadia Theatre, Chatswood.

10.25 p.m.—Resume of following day's pro-
gramme.

10.30 p.m.—Romano's Restaurant Dance Or-
chestra broadcast from Romano's. During
intervals between dances "Sun" news will
be broadcast.

11.30 p.m.—National Anthem.

2GB, SYDNEY

Theosophical Broadcasting Service.

Wave Length, 316 Metres.

FRIDAY, 9th NOVEMBER, 1928.

MORNING SESSION.

10 a.m.—Music.

10.10 a.m.—Happiness Talk by A. E. Bennett.

10.20 a.m.—Music.

10.30 a.m.—Women's Session by Miss Helen J.
Beegling.

11.30 a.m.—Close down.

AFTERNOON SESSION.

2 p.m.—Music.

2.5 p.m.—Women's Radio Service, by Mrs.
Dorothy Jordan.

2.30 p.m.—Music.

2.45 p.m.—Address.

3.15 p.m.—Close down.

EVENING SESSION.

5.30 p.m.—Children's Session by Uncle George.
Radio Movie Club.

7 p.m.—Stock and Market reports by New
Zealand Loan and Mercantile Agency Ltd.

7.15 p.m.—Music.

8 p.m.—2GB Instrumental Trio.

8.15 p.m.—Announcements.

8.20 p.m.—Songs by Mr. Leslie Herford.

8.27 p.m.—Humorous Items by Mr. H. Lock-
wood Brown.

8.34 p.m.—Cello solo by Mr. Cedric Ashton.

8.42 p.m.—Resume of Programme.

8.45 p.m.—Address by Professor Ernest Wood.

9 p.m.—Weather report.

9.2 p.m.—Songs by Miss McEachren.

9.9 p.m.—Violin Solos by Mr. Cecil Berry.

9.17 p.m.—Songs by Mr. Leslie Herford.

9.24 p.m.—2GB Instrumental Trio.

9.35 p.m.—Humorous items, by Mr. H. Lock-
wood Brown.

9.42 p.m.—Pianoforte solos by Miss Ada Brook.

9.50 p.m.—Songs by Miss McEachren.

10 p.m.—Close down.

2 UW, SYDNEY

Sandel Radio, Ltd.

Wave Length, 267 Metres.

FRIDAY, 9th NOVEMBER, 1928.

MIDDAY SESSION.

12.30 p.m.—To-day's anniversary.

12.32 p.m.—Music.

1 p.m.—Clock and chimes.

1.1 p.m.—Music.

2 p.m.—National Association Political address.

2.22 p.m.—"Cheerio Talk."

2.30 p.m.—Close down.

AFTERNOON SESSION.

4.30 p.m.—Music.

5.30 p.m.—Bedtime stories by "Uncle Jack."

6.30 p.m.—Close down.

EVENING SESSION.

7 p.m.—Clock and chimes.

7.1 p.m.—News items etc.

7.10 p.m.—"A talk on Modern English Poetry."

7.30 p.m.—Musical Interlude.

7.35 p.m.—Political address.

7.55 p.m.—Items of interest.

8 p.m.—Clock and chimes.

8.1 p.m.—Music.

9 p.m.—Clock and chimes.

9.1 p.m.—Comments on Foreign affairs by Mr.
J. M. Prentice.

9.10 p.m.—Music and request numbers.

10 p.m.—Close down.

3LO, MELBOURNE.

Broadcasting Co. of Aust.

Wave Length, 371 Metres.

FRIDAY, 9th NOVEMBER, 1928.

EARLY MORNING SESSION.

7.15 a.m.—Morning melodies.

7.20 a.m.—Morning exercises, to music.

7.30 a.m.—Stock reports. Market reports.
General news. Shipping. Sporting infor-
mation.

8 a.m.—Melbourne Observatory time signal.

8.1 a.m.—Morning melodies.

8.15 a.m.—Close down.

MORNING SESSION.

SPORTING.

10.50 a.m.—ERIC WELCH will speak on to-
day's races at Williamstown.

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

RECIPE—RISOTTO.

1½lb. rice.
2oz. grated cheese.
2oz. butter.
1 pint hot stock.
Salt and pepper.
A little saffron.

Wash and dry rice. Put 2oz. butter in saucepan, add rice and stir constantly with wooden spoon. Immediately rice looks dry put a little hot stock on it, and stir again. Continue this until the rice looks quite cooked—about half-hour. Mix a little saffron with stock and pour over rice to color it. Add cheese, and serve.

11.5 a.m.—"DOMINA" will speak on:

"Journalism as a Career for Women."

11.20 a.m.—Musical interlude.

11.25 a.m.—"AU FAIT" will speak.

11.40 a.m.—Musical interlude.

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

DR. FEATONBY will speak on "Vitamines."

MIDDAY SESSION.

12 noon—Melbourne Observatory time signal.
Express train information.

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

12.15 p.m.—Newmarket Stock sales.

Special reports by John McNamara and Co.

12.20 p.m.—THE RADIO-ACES:

"Too Busy" (Nuellen).

"Adoree" (West).

"Lauretta" (Silva).

12.29 p.m.—ARCHIE AND WATTIE.

Patter specialists.

12.36 p.m.—Stock Exchange information.

12.39 p.m.—THE RADIO-ACES:

"I'm tired of making believe" (Kelley).

"Chloe" (Kahn).

"Should I be Sorry" (Kapp).

12.48 p.m.—JOHN D. FRASER, Baritone:

"Like to a Damask Rose" (Elgar).

"Hy! Hy! Hy!"

12.55 p.m.—THE RADIO-ACES:

"Chips"—Piano solo.

"Is it Possible?" (Dixon).

"I think of what you used to think of me" (Turk).

1.4 p.m.—ARCHIE AND WATTIE:

Patter Specialists.

1.11 p.m.—Meteorological information.

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

1.18 p.m.—THE RADIO-ACES:

"Rolling Round in Roses" (Raskin).

"Mother of Mine" (Jolson).

"Rain" (Ruby).

1.27 p.m.—JOHN D. FRASER, Baritone:

"The Carpet" (Sanderson).

"Quiet" (Sanderson).

1.34 p.m.—THE RADIO-ACES:

"Ramona" (Wayne).

"Saluta" (Kahn).

Selected.

1.45 p.m.—Close down.

AFTERNOON SESSION

1.57 p.m.—Description of the Trial Hurdle Race, 2 miles, at WILLIAMSTOWN RACES, by Eric Welch.

2.7 p.m.—THE STATION ORCHESTRA:

Overture, "The Magic Flute" (Mozart).

2.17 p.m.—CHARLES ULIVI, Baritone:

Selected.

2.21 p.m.—THE STATION ORCHESTRA:

"Dance de Bouffons" (Korsakov).

2.27 p.m.—MYRTLE WALSGOTT, Contralto:

"The Violin Player" (Herne).

2.32 p.m.—Description of the Three-year-old Handicap, one mile, at WILLIAMSTOWN RACES.

2.42 p.m.—THE IMPERIAL RUSSIAN TRIO

(Arved Norrit, violin; John Berzinsky,

'cello; and William Ibster, piano—

The Trio:

"Ballade" (Chopin).

William Ibster, Piano:

"Valse" (Chopin).

The Trio:

Selected.

3 p.m.—MINNIE WAUGH, Soprano:

"Il Bacio" (Arditi).

"The Birds go North Again" (Willeby).

3.7 p.m.—Description of the November Handicap, 1¼ miles, WILLIAMSTOWN RACES.

3.17 p.m.—THE STATION ORCHESTRA:

"Fantasie Chopiniana" (arr. Hosmer).

3.24 p.m.—FRANCES FRASER will speak on:

"The English Derby."

If one goes to the races to study the people rather than the horses, there is nowhere a better opportunity than at the English Derby, where one may see types of all classes from King to coster, from the Queen down to the gipsy.

3.39 p.m.—MYRTLE WALSGOTT, Contralto:

"A Million Little Diamonds" (Brahe).

3.42 p.m.—Description of the Truganina Handicap, 6 furlongs, at WILLIAMSTOWN RACES.

3.52 p.m.—CHARLES ULIVI, Baritone:

Selected.

3.59 p.m.—THE STATION ORCHESTRA:

"First Symphony" (Beethoven).

4.10 p.m.—MYRTLE WALSGOTT, Contralto:

"La Serenata" (Braga).

"Three" (Aylward).

4.17 p.m.—Description of the Jumpers' Flat Race, 1½ miles, at WILLIAMSTOWN RACES.

4.27 p.m.—MINNIE WAUGH, Soprano:

"Temple Bells" (Woodford Finden).

"Till I Wake" (Woodford Finden).

4.34 p.m.—THE STATION ORCHESTRA:

"Romance" (Korsakov).

"Minuet" (Morestchanko).

4.40 p.m.—ARCHIE AND WATTIE:

Patter Specialists.

4.47 p.m.—Description of the Williamstown Welter, 1 mile, at WILLIAMSTOWN RACES.

4.57 p.m.—ARCHIE AND WATTIE:

Patter Specialists.

5 p.m.—"Herald" news service.

Stock Exchange information.

5.10 p.m.—Close down.

EVENING SESSION.

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

6.25 p.m.—Musical interlude.

6.30 p.m.—CAPTAIN DONALD McLEAN has a really Thrilling Story to tell you—so be prepared!

NIGHT SESSION.

6.50 p.m.—MADAME SOWARD:

"French Without Tears."

7.5 p.m.—Stock Exchange information.

7.15 p.m.—Special report by John McNamara and Co. Official report of the Newmarket Stock sales by the Associated Stock and Station Agents, Bourke-street, Melbourne. Weather synopsis. Fish Market reports by J. R. Borrett, Ltd. Rabbit prices. River reports. Market reports by the Victorian Producers' Co-operative Co., Ltd. Poultry grain, hay, straw, dairy produce, potatoes and onions. Market reports of Fruit by the Victorian Fruiterers' Association. Retail prices of Fruit by the Wholesale Fruit Merchants' Association. Citrus fruits.

7.30 p.m.—News Session. Results of the Cricket Match, England v. New South Wales, at Sydney.

7.43 p.m.—Birthday greetings.

7.45 p.m.—Out of the Past.

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

8.1 p.m.—W. D. SHAW, Veterinary Officer, under the auspices of the DEPARTMENT OF AGRICULTURE, will speak on:

"Fluke Disease in Sheep."

8.15 p.m.—HUMPHREY BISHOP'S FAMOUS ENGLISH COMEDY and OPERATIC COMPANY—Assisted by THE STATION ORCHESTRA:

1. Overture featuring the Orchestra of the

Humphrey Bishop Company.

2. Humphrey Bishop introduces his company.

3. Ragtime ensemble, featuring Marie Landon. Alan Kitson and the Company.

4. Cecille Audibert, Thelma Trott, John Montfort, and Walter Kingsley, in Picturesque Harmonies.

5. George (Scratcher) Ross in a Comedy Interlude.

6. Marie Landon and the Gentlemen in "The Blackhand Gang."

7. Arthur Hemsley and Gwen Weston in: "Fifty Years Hence."

8. Thelma Trott and John Montfort in: "A Song of the Swamp-land."

9. Elaine Maye and Eileen Moran, in Light Comedy.

10. Arthur Hemsley, the Lancashire Comedian.

11. Marie Landon and Alan Kitson in Song and Dance.

12. Walter Kingsley, the Eminent London Baritone.

13. George (Scratcher) Ross in further Scratcherisms.

14. Grand Operatic Excerpt from "Carmen." Walter Kingsley: "Song of the Toreador."

The Humphrey Bishop Company: Chorus.

9.32 p.m.—H. K. LOVE will speak on:

"Technicalities."

9.42 p.m.—HUMPHREY BISHOP'S ENGLISH COMEDY COMPANY.—Continued.

15. Entrance by the Company.

16. Novel Plantation Song Scene.

17. Thelma Trott will sing:

"Where My Caravan has rested."

18. Arthur Hemsley and Cecille Audibert. "The Porter and the Maid."

19. Eileen Moran, Maurice Jaffrey, and Alan Kitson in Song and Harmony.

20. John Montfort, the English Tenor.

21. George (Scratcher) Ross, assisted by Marie Landon, in a Comedy Sketch.

22. Alan Kitson and the Girls in:

"My Southern Girls."

23. Novel Fantasie—Opera versus Jazz:

Faust Trio: Thelma Trott, John Montfort, and Walter Kingsley.

Jazz Chorus: The Humphrey Bishop Company.

24. Grand Finale—The Humphrey Bishop Company.

10.30 p.m.—ERIC WELCH will speak on tomorrow's racing at Flemington.

10.40 p.m.—THE STATION ORCHESTRA:

"Petite Suite Moderne" (Rosse).

10.47 p.m.—"Argus" News Service. British Official Wireless News from Rugby. Meteorological information. Road Notes supplied by the Royal Automobile Club of Victoria. Announcements.

WEEKLY SEASONABLE GARDENING REMINDER, Supplied by J. H. Brunning.

11.1 p.m.—THE RADIO-ACES.

11.40 p.m.—GOD SAVE THE KING.

3AR, MELBOURNE.

Associated Radio Co.

Wave Length, 484 Metres.

FRIDAY, 9th NOVEMBER, 1928.

MORNING NEWS SESSION.

10 a.m.—G.P.O. Clock says "Ten."

10.1 a.m.—"Age" Stock Exchange report. London Metal market.

10.10 a.m.—"Age" Market reports—farm and station produce, fruit, fish, vegetables, etc.

10.25 a.m.—"Age" Shipping reports.

Ocean forecast.

10.30 a.m.—Mail notices.

Express train information.

10.35 a.m.—"Age" news service, exclusive to 3AR.

10.59 a.m.—Weather forecast.

MORNING MUSICAL SESSION.

11 a.m.—Radi-o-Aces:

"Last Night I Dreamed You Kissed Me" (Kahn).

"That's My Mammy" (Donaldson).

"Honeymoon Cottage" (Lamsdaine).

4QG, BRISBANE

Queensland Radio Service

Wave Length, 385 Metres.

FRIDAY, 9th NOVEMBER, 1928.

EARLY MORNING SESSION.

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

MORNING SESSION.

11 a.m. to 12 noon.

MIDDAY SESSION.

1 p.m.—Market reports and weather information.
1.15 p.m.—From The Paris Cafe:
Lunch-hour music.
1.59 p.m.—From the Brisbane Observatory:
Time signals.
2 p.m.—Close down.

AFTERNOON SESSION.

3 p.m.—From the Tivoli Theatre:
Orchestral music by the Tivoli Operatic Orchestra, under the baton of Mr. C. Groves.
3.30 p.m.—From the Studio:
Mail train running times.
3.31 p.m.—From the Tivoli Theatre:
Orchestral music.
4 p.m.—From the Studio:
A programme of electrically reproduced records.
This afternoon's news.
4.30 p.m.—Close down.

EARLY EVENING SESSION.

6 p.m.—From the Studio:
Mail train running times.
Mail information.
Shipping news.
6.5 p.m.—From The Paris Cafe:
Dinner music.
6.25 p.m.—From the studio:
Commercial announcements.

THE CHILDREN'S HOUR.

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

LATE COMMERCIAL NEWS.

7 p.m.—News in brief.
7.5 p.m.—Stock Exchange news.
7.6 p.m.—Metal quotations.
7.7 p.m.—Market reports.
7.25 p.m.—Fenwick's Stock report.
7.30 p.m.—Weather information.
7.40 p.m.—Announcements.
7.43 p.m.—Standard time signals.
7.45 p.m.—To-morrow's sporting fixtures reviewed.

NIGHT SESSION.

MR. SYDNEY MAY'S PARTY.

8 p.m.—From the Studio:
A programme arranged by Mr. Sydney May.
Agnes Kerr, contralto:
"The Beautiful Land of Ned" (Greene).
Jack Land, tenor:
"Where'er You Walk" (Handel).
Chorus:
"The Blue Danube Waltzes" (Strauss).
Jill Manners, soprano:
"The Second Minuet" (Besley).
Vera Parker, contralto:
"Sapphic Ode" (Brahms).
Mrs. H. R. Hicks and Mr. Jack Land:
Duet, "The Bad Boy and the Good Girl" (Monckton).
Male Quartette:
"I Saw Esau" (Branscombe).
Agnes Kerr, contralto:
Recit., "Ask of Yon Ruined Castle."
Air, "Yet Chime They So Sadly" (Cowen).
John Steele, tenor:
"Flower Song" ("Carmen"—Bizet).

Mrs. H. R. Hicks, soprano:
"Il Bacio" (Arditi).
Part-Song:
"The Song of the Gale" (Foster).
Vera Parker, contralto:
"The Three Fishers" (Hullah).
Mrs. H. R. Hicks, soprano:
"The Little Grey Bonnet" (Monckton).
9 p.m.—Metropolitan weather forecast.
9.1 p.m.—Week-end road information, officially supplied by the Royal Automobile Club of Queensland.
Frank Curnow, bass:
"The Horn" (Flegier).
Vera Parker, and John Steele:
Duet, "Where the Violets Grow" (Lohr).
Chorus:
"Mid the Waving Rose Trees" (Cowen).
Jill Manners, soprano:
"Invitation" (Owen).
Agnes Kerr, contralto:
"The Land of the Leal" (Nairn).
Jack Land, tenor:
"Goodnight Beloved" (Balfe).
Chorus, "Jerusalem" (Soloist: Mrs. H. R. Hicks).
John Steele, tenor:
"Lea Rig" (Reid).
"By and By" (Burleigh).
Male Quartette:
"A Slumber Song" (Lohr).
Mrs. H. R. Hicks, soprano:
"Tit for Tat" (Pontet).
Part-Song:
"The Village Blacksmith" (Weiss).
Frank Curnow, bass:
"Uncle Rome" (Homer).
"Big Ben" (Pontet).
Part-song:
"My Old Kentucky Home" (Branscombe).
10.15 p.m.—Late news. Weather news.
Close down.

5CL, ADELAIDE.

Central Broadcasters, Ltd.

Wave Length, 395 Metres.

FRIDAY, 9th NOVEMBER, 1928.

MORNING SESSION.

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

MIDDAY SESSION.

12 noon.—G.P.O. Chimes.
12.1 p.m.—"The Advertiser" general news service.
12.20 p.m.—British Official Wireless news.
12.25 p.m.—Syd Morell, baritone:
"Crown of the year" (Martin).
"Wayfarers Night Song" (Martin).
12.32 p.m.—Seth Smith, banjoist:
"The Darkies Awakening" (Lansing).
"The Douglas March" (Rossiter).
12.39 p.m.—Eileen Body, soprano:
Selections from her repertoire.
12.46 p.m.—Tom King, pianist:
"Kiss me again" (Herbert).
12.50 p.m.—S. A. Railway information.
12.51 p.m.—S. C. Ward and Co.'s Stock Exchange information.
12.57 p.m.—Meteorological information.
1 p.m.—G.P.O. Chimes.
1.1 p.m.—Bertha Jones, violinist:
"Souvenir" (Drdla).
"Madrigale" (Simonet).
1.7 p.m.—Syd Morell, baritone:
"Beyond the Veil" (Russell).
"In an old Fashioned Town" (Squire).
1.14 p.m.—Seth Smith, banjoist:
"When I sang the Rosary" (Wayne).
"Winning the fight March" (Gilbert).
1.21 p.m.—Eileen Boyd, soprano:
Selections from her repertoire.
1.28 p.m.—Bertha Jones, violinist:
"Liebestraum" (Kreiser).
"Moments Musical" (Schubert).

11.15 a.m.—Rita Hilton, comedienne:
"The Dear Little Jappy-Jap-Jappy."
"She Didn't Know."
11.22 a.m.—Radi-o-Aces:
"I'm Wingin' Home" (Russell).
"Evening Star" (Turk).
"Russian Rag" (Stutzel).
11.37 a.m.—Victor Harding, baritone:
"King of the Deep" (Jude).
"A Banjo Song" (Homer).
11.44 a.m.—Radi-o-Aces:
"Henry's Made a Lady Out of Lizzie" (O'Keefe).
"We'll Have a New Home in the Morning" (Buck).
"In a Bamboo Garden" (Donaldson).
12 noon.—Freda Colhoun, contralto.
"The Wren" (Liza Lehmann).
"The Starling" (Liza Lehmann).
12.7 p.m.—Radi-o-Aces:
"Anything You Say" (Donaldson).
"My Melancholy Baby" (Norton).
"Ice Cream."
12.17 p.m.—Rita Hilton, comedienne:
"Le Belle Parisienne" (Kerker).
"Come Along With Me" from "The Orchid."
12.24 p.m.—British Official Wireless.
Announcements.
12.34 p.m.—Radi-o-Aces:
"Don't Cry, Baby" (Kahn).
"Love Affairs" (Robinson).
Piano Solo: "Rag Doll" (Brown).
12.44 p.m.—Victor Harding, baritone:
"Gave a Man a Horse he Can Ride" (O'Hara).
"King Charles" (White).
12.51 p.m.—Radi-o-Aces:
"Cry Baby" (Smith).
"Rose of Monterey" (Guy).
"Red Head" (Ermbey).
1.6 p.m.—Freda Colhoun, contralto:
"Red Roofs" (May Brahe).
"Marguerite" (McGeoch).
1.13 p.m.—Radi-o-Aces:
"The Man I Love" (Gershwin).
"Was it a Dream" (Brett).
"Together" (Brown).
1.30 p.m.—Close down.

EVENING SESSION.

5 p.m.—A Recital of Past Masters.

NIGHT SESSION.

8.15 p.m.—Community Singing, transmitted from the Central Hall, Geelong.
From the Studio—
10.15 p.m.—Minnie Waugh, soprano:
"Beloved, it is Morn" (Aylward).
"Angels Ever Bright and Fair" (Handel).
10.22 p.m.—Imperial Russian Trio (Arved Norit, violin; John Berzinsky, cello; William Ibster, piano):
Piano: "Recuerdos de Viaje" (Albeniz).
Violin: "Andantino" (Martini).
Trio in C Minor (Beethoven).
("Andante Cantabile con variationi and Menuetto.")
10.37 p.m.—Minnie Waugh, soprano:
"Still as the Night" (Bohm).
"Open Thy Blue Eyes" (Massenet).
10.44 p.m.—Vera Buck, piano:
"Study in D Minor" (Heller).
"Zephyr" (Lescant).
"Gavotte" (Bach).
"First Movement Sonata in F Minor" (Beethoven).
10.54 p.m.—"Age" news service, exclusive to 3AR.
10.58 p.m.—Weather forecast.
10.59 p.m.—Our Australian Good-night quote is taken from the poem, "My Hope," by Ruby Sykes Lyon:
"I want to always try to be
Trustful of what I cannot see;
I want to ever seek to find
Only the best in all mankind.
I want to soothe with loving touch
Those who are troubled overmuch;
I want to do my best to share
The sorrows some are called to bear."
11 p.m.—God Save the King.

- 1.35 p.m.—Studio "Recreator."
Recital of Columbia Recordings.
1.57 p.m.—Meteorological information.
2 p.m.—G.P.O. Chimes, and close down.

AFTERNOON SESSION.

- 3 p.m.—G.P.O. Chimes and Williamstown Racing results.
3.2 p.m.—"Maple Leaf Cafe" Orchestra:
Selection, "Gypsy Princess" (Kalman).
Valse, "Songs D'Automne" (Joyce).
Molly Mackay, soprano:
"Les Cloches" (Debussy).
"The New Umbrella" (Besley).
"Maple Leaf Cafe" Orchestra:
Fox trot, "In a Bamboo Garden" (Donaldson).
Novelette, "Moon Madness" (Lodge).
Molly Mackay, soprano:
"Spring" (Henschel).
"Pipes of Pan."
Wattie and Graham, entertainers:
Comedy selections.
4 p.m.—G.P.O. Chimes and Williamstown Racing results.
4.2 p.m.—"Arcadia Cafe" Orchestra:
Overture, "Hungarian Luspel" (Keler-Bela).
Elsie Woolley, mezzo:
"Little Coon's Prayer" (Hope).
"Time Roses" (Barry).
"Arcadia Cafe" Orchestra:
Oriental, "Sun Dance" (Friedman).
Selection, "Betty in Mayfair" (Simon).
4.28 p.m.—Wattie and Graham, entertainers:
Comedy selections.
4.36 p.m.—"Arcadia Cafe" Orchestra:
Cornet solo, "Reverie No. 2" (Cope). by Vern Rogers.
"Arcadia Cafe" Orchestra:
Suite, "Caravan" (Joyce).
Polish Dance, "Kuyawiak" (Wieniawski).
4.57 p.m.—S. C. Ward and Co.'s Stock Exchange information and Williamstown Race results.
5 p.m.—G.P.O. Chimes and close down.

EVENING SESSION.

- 6 p.m.—G.P.O. Chimes.
6.1 p.m.—International Cricket Scores:
England v. New South Wales.
6.5 p.m.—Children's Happy Moments:
Birthday Greetings, Correspondence, Songs and Stories by "Miss Wireless."
6.30 p.m.—Dinner Music:
Recital of Columbia recordings on the Studio "Recreator."
6.55 p.m.—Williamstown Race results.
Stump Scores of International Cricket:
England v. New South Wales.
7 p.m.—G.P.O. Chimes.
7.1 p.m.—S. C. Ward and Co.'s Stock Exchange information.
7.6 p.m.—General Market reports.
7.10 p.m.—Resume of the International Cricket Match.
7.15 p.m.—5CL Sporting Service by "Silvius" including a review of Tattersalls, and Flemington Racing.
7.25 p.m.—Cricket talk by "Willow."

NIGHT SESSION.

- 7.40 p.m.—Malcolm Reid's Orchestra. Transmitted from showrooms:
Fox trot, "My love is calling" (Lewis).
Waltz, "Moonlight" (Dixon).
7.52 p.m.—Molly Mackay, soprano:
"The silver ring" (Chaminade).
"Bird songs at Eventide" (Coates).
8 p.m.—G.P.O. Chimes.
8.1 p.m.—S. A. Railways Band:
March, "The President" (German).
Overture, "The Champion" (Hartman).
8.13 p.m.—Wattie and Graham, entertainers:
Humorous interlude.
8.21 p.m.—Malcolm Reid's Orchestra:
Fox trot, "Roses of Remembrance."
Oriental, "Moonlight on the Ganges."
8.30 p.m.—Molly Mackay, soprano:
"The lass with delicate air" (Arne).
"Ave Maria" (Gounod).
8.37 p.m.—S. A. Railways Band:
Euphonium solo, "The Gypsy's Warning" (Bond).
Characteristic, "Slippery Hank" (Loser).
8.49 p.m.—Dennis Sheard, tenor:
"Until" (Sanderson).
"Wait" (D'Hardelot).

- 8.53 p.m.—Malcolm Reid's Orchestra:
Popular song hits.
9 p.m.—G.P.O. Chimes.
9.1 p.m.—Meteorological information.
9.2 p.m.—Overseas Grain report.
9.3 p.m.—Wattie and Graham, entertainers:
A humorous interlude.
9.11 p.m.—S.A. Railway Band:
Selection, "Gems from Sullivan Operas" (Arrgd Hume).
9.23 p.m.—Dennis Sheard, whispering baritone:
"Chloe" (Moret).
"Get out and get under the Moon" (Shay).
9.30 p.m.—S.A. Railway Band:
Waltz, "Dream of the Ocean" (Gungl).
9.39 p.m.—Don Fraser, comedian:
In comedy characterisation.
9.46 p.m.—S.A. Railways Band:
Two Step, "St. Hilda" (Greenwood).
9.49 p.m.—Dennis Sheard, whispering baritone:
"Tenderly."
"Rain" (Ford).
9.52 p.m.—S.A. Railways Band:
Fox trot, "Dancing Tambourine."
9.55 p.m.—Don Fraser, comedian:
In droll humor.
10 p.m.—G.P.O. Chimes.
10.1 p.m.—"The Advertiser" general news service.
10.10 p.m.—5CL's Sporting service by "Silvius" including a review of Tattersalls and Flemington racing.
10.22 p.m.—Williamstown race Results.
10.27 p.m.—S.A. Railway Band:
Fantasia, "Southern Maid" (Simpson).
Quick step, "National Federation" (Lincom).
10.37 p.m.—On With The Dance:
By Courtesy of 3LO Melbourne:
Modern dance music by the Radi-o-aces.
11 p.m.—God Save the King.

6WF, PERTH

Westralian Farmer's.

Wave Length, 1250 Metres.

FRIDAY, 9th NOVEMBER, 1928.

MIDDAY SESSION.

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

AFTERNOON SESSION.

- 3.30 p.m.—Tune in.
3.35 p.m.—Afternoon Tea Concert relayed from the Rosebud Cafe, Perth.
Vocal and instrumental numbers from the Studio.
4.30 p.m.—Close down.

EVENING SESSION.

- 6.45 p.m.—Tune in.
The evening transmission is broadcast on 104.5 metres as well as usual wavelength.
6.48 p.m.—Musical session for the Kiddies by Uncles Henry, Percy and Duffy and Aunties Amy and Audrey.
7.5 p.m.—Items by the Studio Trio.
7.30 p.m.—Stocks, Markets, news.
7.45 p.m.—Racing talk by the Sporting editor of "Truth" newspaper Co.
8 p.m.—Time signal.
8.1 p.m.—Weather notes supplied by the Meteorological Bureau of Western Australia.
Station announcements such as alterations to programmes, etc.
8.3 p.m.—Popular Night.
Musical programme from the Studio, including vocal and instrumental artists.
9 p.m.—Late news items by courtesy of "The Daily News" newspaper Co.
Ships within range announcement.
Weather report and forecast.

- 9.10 p.m.—Talk: "Various Phases of Vegetable and Herb Culture" by Mr. James Conarty.
10.30 p.m.—Close down.

104.5 METRE TRANSMISSION.

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

7ZL, HOBART

Tasmanian Broadcasters, Ltd.

Wave Length, 516 Metres.

FRIDAY, 9th NOVEMBER, 1928.

MIDDAY SESSION.

- 11.30 a.m.—M'elie Columbia Broadcasts.
11.34 a.m.—Special Midlands Weather forecast.
11.35 a.m.—Tasmanian Stations 9 a.m. weather report.
12 noon.—G.P.O. Clock chimes the hour.
12.1 p.m.—Shipping information.
Ships within wireless range.
Mail notices.
Housewives Guide.
12.8 p.m.—M'elie Columbia Broadcasts.
12.11 p.m.—British Official Wireless news.
12.20 p.m.—M'elie Columbia Broadcasts.
12.29 p.m.—Announcements.
12.33 p.m.—"Mercury" news service.
Produce sales held at Railway.
1.10 p.m.—M'elie Columbia Broadcasts.
1.30 p.m.—Close down.
2 p.m.—Running Description of Trial Hurdle Race, 2 miles, Williamstown Races, Victoria.
2.5 p.m.—Close down.
2.35 p.m.—Running description of Three Year Old Handicap, Williamstown Races, Victoria.
2.40 p.m.—Close down.

AFTERNOON SESSION.

- 3 p.m.—G.P.O. Clock chimes the hour.
3.1 p.m.—M'elie Columbia Broadcasts.
3.5 p.m.—Weather information.
3.6 p.m.—M'elie Columbia Broadcasts.
3.10 p.m.—Running description of November Handicap, 1 mile and a quarter, Williamstown Races, Victoria.
3.15 p.m.—M'elie Columbia Broadcasts.
3.45 p.m.—Running Description of Truganina Handicap, 6 furlongs, Williamstown Races, Victoria.
3.50 p.m.—M'elie Columbia Broadcasts.
4.5 p.m.—Reading from the "Weekly Courier" What energetic men are doing and saying.
4.20 p.m.—Running description of Jumper's Flat Race, 1 mile and a half, Williamstown Races, Victoria.
4.25 p.m.—M'elie Columbia Broadcasts.
4.30 p.m.—Close down.
4.50 p.m.—Running description of Williamstown Welter, 1 mile, Williamstown Races, Victoria.
4.55 p.m.—Close down.
During the afternoon Progress Results will be given of Cricket—English XI v. New South Wales, at Sydney Cricket Ground.

EARLY EVENING SESSION.

CHILDREN'S HOUR.

- 6.15 p.m.—Answers to Letters and Birthday Greetings by "Uncle David."
6.20 p.m.—M'elie Columbia Broadcasts.
6.30 p.m.—"The Storey Lady":
"Surprise Story and Verses."
A Musical Novelty for the Children.
6.45 p.m.—Mr. Malone of New Town has lent us a Musical Box. We thought you would like to hear it.
"Know ye the land" (Mignon—Thomas).
"The Prophet" (Meyerbeer).
"Don Juan Serenade" (Mozart).
"The Amorous Goldfish" The Geisha (Jones).
"The Fellow who might"—Florodora (Leslie Stuart).
6.50 p.m.—M'elie Columbia Broadcasts.

EVENING SESSION.

- 7.15 p.m.—J. Scott, Professional Coach of the Royal Hobart Golf Club will speak on: "Golf."
 7.25 p.m.—Alderman H. H. Facy will speak on: "The Coronation of King Edward VII."

A STUDIO CONCERT.

- 7.30 p.m.—Albert Sargison, tenor: "Flower Divine" (Hayden Wood).
 "Thou art like a lovely flower" (Schumann).
 7.37 p.m.—M'elie Columbia Broadcasts.
 7.40 p.m.—Ruby Wallace, soprano: "Bid me Discourse" (Bishops).
 "One Fine Day" (Puccini).
 7.47 p.m.—M'elie Columbia Broadcasts.
 7.52 p.m.—Florence Sturgess, whispering contralto:
 "Five Little Piccaninnies" (Robert Anthony).
 "You'll git heaps O'Lickin's" (Clarke).
 7.58 p.m.—M'elie Columbia Broadcasts.
 8 p.m.—G.P.O. Clock chimes the hour. Acknowledgement of donations to Senior Birthday Greetings for Wireless Equipment for General Hospital.
 8.1 p.m.—Mabel Bailey, soprano: "What a Wonderful World" (Lohr).
 "Evening Boat Song" (Schubert).
 8.7 p.m.—M'elie Columbia Broadcasts.
 8.10 p.m.—Albert Sargison, tenor: "Salaam."
 "Sally Horner."
 8.17 p.m.—M'elie Columbia Broadcasts.
 8.20 p.m.—Ruby Wallace, soprano: "Love is meant to make us glad" (German).
 "Tell me, do the roses blow" (Green).
 8.27 p.m.—M'elie Columbia Broadcasts.
 8.30 p.m.—Florence Sturgess, whispering contralto:
 "A Little Coon's Prayer" (Hope).
 "Jest her way" (Aitken).
 8.37 p.m.—M'elie Columbia Broadcasts.
 8.40 p.m.—Mabel Bailey, soprano: "My Prayer" (Squire).
 "Down Here" (Brahe).
 8.45 p.m.—J. M. Counsel: "A musical hour with the Old Masters."
 "The History and Development of Music."
 8.50 p.m.—British Official wireless news. Reading from Weekly Courier.
 "Mercury" special Tasmanian news service. Railway Auction Produce sales. Weather information. Hobart Stock Exchange Quotations. Royal Autocar Club of Tasmania. Road guide for the week end. Cycling notes by the Hobart Cycling Association. Athletic news by the Amateur Athletic Association of Tasmania. Market reports from Messrs Wise and Stirling, Messrs Roberts, and Co., and Messrs A. G. Webster and Sons.
 10 p.m.—G.P.O. Clock chimes the hour.
 10.3 p.m.—God Save The King.
 Close down.

Saturday, November 10

New South Wales Broadcasting Company, Limited.

2FC, SERVICE.

EARLY MORNING SESSION.

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

MORNING SESSION.

- 10 a.m.—"Big Ben" and announcements.
 10.2 a.m.—Studio Music.
 10.10 a.m.—"Sydney Morning Herald" news service.
 10.25 a.m.—Studio Music.
 10.30 a.m.—Last minute sporting information by the 2FC Racing Commissioner.
 10.45 a.m.—Gardening Talk by J. G. Lockley ("Redgum").
 11 a.m.—"Big Ben."
 A.P.A. and Reuter's Cable Services.
 11.5 a.m.—Close down.

MIDDAY AND AFTERNOON SESSIONS.

- 12 noon.—"Big Ben" and programme announcements.
 12.2 p.m.—Stock Exchange information.
 12.4 p.m.—Studio Music.
 12.10 p.m.—"Sydney Morning Herald" news service.
 12.15 p.m.—Rugby wireless news.
 12.20 p.m.—Studio Music.
 1 p.m.—"Big Ben." Weather intelligence.
 1.3 p.m.—"Evening News" midday news service.
 Races:—From Newcastle: Events of the Northern Jockey Club's Cup Meeting direct from the Course.
 From Melbourne: By courtesy of 3LO a description of the Final Handicap of the V.R.C. Spring Meeting at Flemington. Also a description of the C.B. Fisher Plate.
 From Canterbury Park: Events in the running will be described (by the 2FC Racing Commissioner) of the Canterbury Park Racing Club's Meeting.
 Cricket: Progress scores of the match played at the Sydney Cricket Ground, England versus New South Wales. (The play is being described throughout the afternoon by Station 2BL.)
 During sporting events, musical items will be given from the Studio as follows:
 Rita Graham, violinist:
 (a) "Elfentanz" (Jenkinson).
 (b) "Londonderry Air" (Tolhurst).
 (c) "Hejre Kati" (Hubay).
 (d) "Chant populaire Viennois" (Kreisler).
 Dance Music.
 4.48 p.m.—Sporting resume.
 5 p.m.—"Big Ben."
 From the Sydney Cricket Ground:
 A description of the play and gross scores of the International Cricket Match, England versus New South Wales, until 5.40 p.m.

EARLY EVENING SESSION.

- 5.40 p.m.—The chimes of 2FC.
 5.45 p.m.—Children's Session, conducted by the "Hello Man."
 6.30 p.m.—Music and entertainment.
 6.40 p.m.—Weather intelligence, shipping, Stock Exchange.
 6.45 p.m.—Rugby wireless news.
 6.50 p.m.—Sporting news, late news and Studio music.
 7.10 p.m.—The 2FC Dinner Quartet, conducted by Horace Keats:
 (a) "Marche Militaire" (Schubert).
 (b) "Cavatina" (Raff).
 (c) "La Traviata" (Verdi).
 (d) "Serenata Napolitana" (Becci).
 (e) "Indian Love Lyrics" (Woodforde-Finden).
 (f) "Moonlight in Rio" (Wertheimer).

NIGHT SESSION.

- 7.40 p.m.—Programme announcements.
 7.47 p.m.—Studio music.
 7.50 p.m.—Cricket resume for N.Z. Listeners.
 7.52 p.m.—Pianoforte reproduction.
 8 p.m.—"Big Ben."
 From Central Hall, Newcastle.
 A programme arranged by the N.S.W. Broadcasting Company, Limited, in which the following 2FC artists will assist:
 Ernest Archer, Tenor.
 Charles Lawrence, Entertainer.
 Carlton Fay, Pianist.
 Maggie Foster, Violinist.
 Foster and Finlay, Instrumentalists.
 Together with items by Local Artists.

- 9 p.m.—"Big Ben." From the Studio, Sydney: Late Weather forecast; announcements, and Studio music.
 9.10 p.m.—From Newcastle, Central Hall: Continuation of the programme by 2FC Local Artists.
 10.10 p.m.—From the Studio: Florence Page, Songs at the Piano.
 10.18 p.m.—Romano's Dance Orchestra, under the direction of Merv Lyons.
 10.28 p.m.—Charles Renton, Comedian.
 10.35 p.m.—Late Weather forecast.
 10.36 p.m.—Romano's Dance Orchestra.
 10.48 p.m.—Florence Page, Songs at the Piano.
 10.57 p.m.—To-morrow's Programme and late news.
 11 p.m.—"Big Ben."
 11.10 p.m.—Charles Renton, Comedian.
 11.17 p.m.—Romano's Dance Orchestra.
 11.30 p.m.—National Anthem. Close down.

2BL, SERVICE.

SATURDAY, 10th NOVEMBER, 1928

MORNING SESSION.

- 8 a.m.—G.P.O. Clock and chimes. Metropolitan Weather report.
 8.1 a.m.—State Weather report.
 8.2 a.m.—Studio music.
 8.15 a.m.—G.P.O. Clock and chimes. News service from the "Daily Telegraph Pictorial."
 8.25 a.m.—Studio music.
 8.35 a.m.—Information, mails, shipping, arrivals, departures, and sailings.
 8.38 a.m.—News service from the "Daily Telegraph Pictorial."
 8.45 a.m.—G.P.O. Clock and chimes. Studio Music.
 9 a.m.—G.P.O. Clock and chimes. Studio Music.
 9.30 a.m.—Half an hour with silent friends.
 10 a.m.—G.P.O. Clock and chimes. Close down.

MIDDAY AND AFTERNOON SESSIONS.

- 11 a.m.—G.P.O. Clock and chimes. Women's Session.
 12 noon.—G.P.O. Clock and chimes. Special Ocean forecast and weather report.
 12.3 p.m.—Studio music.
 12.30 p.m.—"Sun" news service.
 12.40 p.m.—What's on at the Pictures and Theatres.
 12.45 p.m.—Pianoforte recital from the studio.
 12.50 p.m.—Studio music.
 1.30 p.m.—"Sun" news service.
 1.40 p.m.—Studio Music.
 2 p.m.—Close down.

AFTERNOON SESSION.

- 2.15 p.m.—G.P.O. Clock and chimes. From the Sydney Cricket Ground: Description of play in the International Cricket Match, England versus New South Wales.
 4 p.m.—Musical programme from the studio.
 4.15 p.m.—From the Sydney Cricket Ground: Description of play in the International Cricket Match, England versus New South Wales.
 5 p.m.—Musical programme from the studio.
 5.40 p.m.—From the Sydney Cricket Ground: Description of play in the International Cricket Match, England versus New South Wales.

EARLY EVENING SESSION.

- 6 p.m.—Children's letters and stories.
 6.30 p.m.—"Sun" news.
 6.40 p.m.—2BL Dinner Quartette:
 (a) "Mayfair and Montmartre" (Arr. Higgs).
 (b) "A little Love Story" (Lotter).
 (c) "Czardas" (Monti).
 (d) "Lilac Time" (Schubert).
 (e) "Souvenir di Capri" (Becece).
 (f) "In the garden of my heart" (Ball).
 7.10 p.m.—Complete Sporting Resume. Complete racing resume.
 7.30 p.m.—Mr. Pim and Miss Pam in advertising talks and nonsense.
 7.55 p.m.—Programme and other announcements.

EVENING SESSION.

- Note: During the evening descriptions of events from the Speedway Royal, R.A.S. Gronds will be broadcast.
- 8 p.m.—G.P.O. Clock and chimes.
Mr. Charles Nicis, tenor.
- 8.7 p.m.—The Ahad Duo, and Mr. Phil Mountain, entertainers.
- 8.22 p.m.—Miss Ivy Saxton in popular items.
- 8.29 p.m.—The New South Wales Broadcasting Company's Orchestra conducted by Mr. Willie Redstone.
- 8.44 p.m.—Dorothy Manning and Harry Graham, entertainers:
(a) Duet, "The funny little way you've got" (Cardow).
(b) "Love sends a little gift of roses" (Orenshaw), Dorothy Manning.
(c) Duet, "The only miss I miss is you" (Hansford).
- 8.45 p.m.—Mr. Charles Nicis.
- 9.1 p.m.—Weather report and courtesy of Govt. Meteorologist.
- 9.2 p.m.—The New South Wales Broadcasting Company's Orchestra.
- 9.17 p.m.—Miss Ivy Saxton.
- 9.24 p.m.—The Ahad Duo, and Mr. Phil Mountain.
- 9.39 p.m.—The New South Wales Broadcasting Company's Orchestra.
- 9.54 p.m.—Dorothy Manning, and Harry Graham:
(a) Duet, "If you lived in the moon" (Lawrence).
(b) Duet, "Seaside Amusements" (Low).
- 10.4 p.m.—The New South Wales Broadcasting Company's Orchestra.
- 10.19 p.m.—Resume of following day's programme.
- 10.23 p.m.—The Wentworth Cafe Orchestra, under the direction of Jimmy Elkins broadcast from the ballroom of The Wentworth. During intervals between dances "Sun" news will be broadcast.
- 11.30 p.m.—National Anthem.

2GB, SYDNEY.

SATURDAY, 10th NOVEMBER, 1928

MORNING SESSION.

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

AFTERNOON SESSION.

- 2 p.m.—Music.
Dorothy Jordan.
- 2.30 p.m.—Music.
- 3 p.m.—Address.

EVENING SESSION.

- 5.30 p.m.—Children's Session by Uncle George.
- 7 p.m.—Dance music.
- 8 p.m.—Request Evening.
- 9 p.m.—Grown-up Children's hour.
- 10 p.m.—Close down.

2 UW, SYDNEY

SATURDAY, 10th NOVEMBER, 1928

EVENING SESSION.

- 5.30 p.m.—Bedtime Stories conducted by Uncle Jack.
- 6.30 p.m.—Close down.
- 7 to 9.59 p.m.—Musical Programme.
- 10 p.m.—Close down.

3LO, MELBOURNE.

SATURDAY, 10th NOVEMBER, 1928

EARLY MORNING SESSION.

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

MORNING SESSION.

- 11 a.m.—ERIC WELCH will speak on to-day's races at Flemington.
- 11.10 a.m.—THE STATION ORCHESTRA: Overture, "Fingal's Cave" (Mendelssohn).
- 11.20 a.m.—CHAS. ULIVI, Baritone: Selected.
- 11.27 a.m.—THE STATION ORCHESTRA: Suite from "As You Like it" (Quilter).
- 11.37 a.m.—MINNIE WAUGH, Soprano: "Nymphs and Fauns" (Bemberg). "Thoughts Have Wings" (Lehmann).
- 11.45 a.m.—THE RUSSIAN IMPERIAL TRIO (Arved Norit, violin; John Berzinsky, 'cello; William Ibster, piano). "Autumn" (Grieg). "Season Song" (Tschaikowsky). "Gavotte" (Gossec).

MIDDAY SESSION.

- Announcer FRANK HATHERLEY.
Accompanist AGNES FORTUNE.
- 12 noon.—Melbourne Observatory Time Signal
- 12.1 p.m.—Metal prices received by the Australian Mines and Metals Association from the London Stock Exchange this day. British Official Wireless news from Rugby. Reuter's and the Australian Press Association cables. "Argus" news service.
- 12.20 p.m.—THE STATION ORCHESTRA: Overture, "Leonore" (Beethoven).
- 12.30 p.m.—CHAS. ULIVI, Baritone: Selected.
- 12.37 p.m.—Stock Exchange information.
- 12.40 p.m.—ARCHIE AND WATTIE: Patter Specialists.
- 12.47 p.m.—THE STATION ORCHESTRA: "Second Mazurka" (Godard). "Prelude" (Rachmaninoff).
- 12.57 p.m.—Description of the Batman Stakes, one mile, V.R.C. Races, at Flemington, by Eric Welch.
- 1.7 p.m.—THE STATION ORCHESTRA: "Bavarian Dances" (Elgar).

- 1.14 p.m.—Meteorological information. Weather forecast for Victoria, Tasmania, South Australia, and New South Wales. Ocean forecasts. River reports.
- 1.21 p.m.—ARCHIE AND WATTIE: Patter Specialists.
- 1.28 p.m.—STATION ORCHESTRA: "Reminiscences of Grieg" (Godfrey).
- 1.37 p.m.—Description of Flemington Stakes, six furlongs, V.R.C. RACES, at FLEMINGTON.
- 1.47 p.m.—Close down.

AFTERNOON SESSION.

- 2.15 p.m.—Description of the Cricket Match, Sheffield Shield, Victoria versus South Australia, at M.C.G.
- 2.37 p.m.—Description of the C. B. Fisher Plate, 1½ miles, V.R.C. Races at Flemington.
- 2.47 p.m.—Description of the Cricket Match, Sheffield Shield, Victoria versus South Australia, at M.C.G.
- 3.27 p.m.—Description of the V.R.C. Handicap, 1¼ miles, V.R.C. Races at Flemington.
- 3.37 p.m.—Description of the Sheffield Shield Cricket Match, Victoria versus South Australia, at M.C.G.
- 4 p.m.—SONORA RECITAL.
- 4.17 p.m.—Description of the Victoria Steeplechase, 3 miles 1 furlong, V.R.C. Races, at Flemington.

- 4.27 p.m.—Description of the Sheffield Shield Cricket Match, Victoria versus South Australia, at M.C.G.
- 4.57 p.m.—Description of the Final Handicap, 1¼ miles, V.R.C. Races, at Flemington.
- 5.7 p.m.—"Herald" news.
- 5.15 p.m.—Description of Sheffield Shield Cricket Match, Victoria versus South Australia, at M.C.G.

EVENING SESSION.

- 5.50 p.m.—Sporting results.
- 6 p.m.—Answers to Letters and Birthday Greetings by "Little Miss Kookaburra."
- 6.23 p.m.—Musical interlude.
- 6.30 p.m.—"Little Miss Kookaburra" will tell the story of "The Sleeping Beauty."

NIGHT SESSION.

- Announcer MAURICE DUDLEY.
Accompanist AGNES FORTUNE.
- 7.5 p.m.—Stock Exchange information.
- 7.15 p.m.—Official reports of the Newmarket Stock sales by the Associated Stock and Station Agents, Bourke Street, Melbourne. Fish market reports by J. R. Borrett, Ltd. Rabbit prices. River reports. Market reports by the Victorian Producers' Co-operative Company Ltd. Poultry, grain, hay, straw, jute, dairy produce, potatoes and onions. Market reports of fruit by the Victorian Fruitgrowers' Association. Wholesale prices of fruit by the Wholesale Fruit Merchants' Association. Citrus fruits.
- 7.30 p.m.—News session. Results of the Sheffield Shield Cricket Match, Victoria versus South Australia.
- 7.43 p.m.—Birthday greetings.
- 7.45 p.m.—DR. J. A. LEACH will speak on "Shining Flycatchers."
- 8 p.m.—Tasmanian Letter to 3LO, from "The Courier," Launceston.
- 8.1 p.m.—MANDOLIANS: Colonial Dance, "Priscilla" (Weidt); "Barcarolle"—Tales of Hoffman (Offenbach).
- 8.10 p.m.—MINNIE WAUGH, soprano: "Awake" (Pillissier). "The Little Silver Ring" (Chamade).
- 8.17 p.m.—THE MANDOLIANS: Selection, "Bohemian Girl" (Balfe).
- 8.27 p.m.—CHARLES ULIVI, baritone: Selected.
- 8.34 p.m.—THE MANDOLIANS: "Medley of National Songs" (Miller).
- 8.44 p.m.—ARCHER and WATTIE: Patter Specialists.
- 8.49 p.m.—The Record Feature of the Week.
- 8.50 p.m.—ERIC WELCH will describe to-night's events at the Stadium.
- 10.15 p.m.—THE IMPERIAL RUSSIAN TRIO (Arved Norit, violin; John Berzinsky, 'cello, and William Ibster, piano): Arved Norit, violin, "Chanson Meditation" (Cottenet). John Berzinsky, 'cello, "Esquisse" (Vitol). The Trio, "Allegro Vivace-e-con-brio—Trio in D Minor" (Beethoven).
- 10.30 p.m.—ARCHIE and WATTIE: Patter Specialists.
- 10.37 p.m.—THE MANDOLIANS: Fiji Dance, "Carnival Chief" (McGrath). Novelette, "Thistledown" (Scholes).
- 10.47 p.m.—Late Sporting news.
- 10.53 p.m.—THE MANDOLIANS: "Kiddikins Doll Dance" (Weidt). "Ballad" (Davidson). With Guitar accompaniment.
- 11.1 p.m.—THE RADIO-ACES.
- 11.40 p.m.—GOD SAVE THE KING.

3AR, MELBOURNE

SATURDAY, 10th NOVEMBER, 1928

MORNING NEWS SESSION.

- 10 a.m.—G.P.O. Clock says "Ten."
- 10.1 a.m.—"Age" Stock Exchange reports. London Metal Market.
- 10.10 a.m.—"Age" Market reports—farm and station produce, fruit, fish, vegetables, etc.

10.25 a.m.—"Age" Shipping report.
Ocean forecast.
10.30 a.m.—Mail notices.
Express train information.
10.35 a.m.—"Age" news service, exclusive to 3AR.
10.59 a.m.—Weather forecast.

MORNING MUSICAL SESSION.

11 a.m.—Radi-o-Aces:
"Blue Berry Land" (Bryan).
"Delirium" (Schutt).
"Felix the Cat" (Naustraum).
11.15 a.m.—Winifred Greer, contralto:
"Wait" (Guy d'Hardelot).
"One Little Hour" (Evelyn Sharpe).
11.22 a.m.—Radi-o-Aces:
"Polly" (Zamecnik).
"There's One Little Girl who Loves Me" (Kahn).
"Oh, Doris, Where Do You Live" (Kahn).
11.37 a.m.—Winifred Greer, contralto:
"When I'm Home Again" (Wood).
"Little Brown Cottage" (Dickson).
11.44 a.m.—Radi-o-Aces:
"Tell Me To-night" (Little).
"Mary Ann" (Davis).
"Hallelujah" (Youmans).
12 noon.—Close down.

AFTERNOON SESSION.

3 p.m.—Station Orchestra:
Suite: "Language of Flowers."
3.15 p.m.—Jessie Irwin, soprano:
"There are Fairies at the Bottom of Our Garden."
"Love's Old Sweet Song" (Molloy).
3.22 p.m.—Station Orchestra:
"Petite Suite Moderne" (Rosse).
3.32 p.m.—Victor Harding, baritone:
"The Company Sergeant-Major" (Sanderson).
"I Know of Two Bright Eyes" (Clutsam).
3.39 p.m.—Station Orchestra:
Suite, "As You Like It" (Quilter).
3.49 p.m.—Howard Andrews, bass:
"An Emblem" (Jack Thomson).
"From Oberon in Fairyland".
3.56 p.m.—Station Orchestra:
"Andante from Fifty Symphony" (Tschalkowsky).
4.6 p.m.—Jessie Irwin, soprano:
"The Love Note" (Rogers).
"To a Messenger" (Forge).
4.13 p.m.—Station Orchestra:
"Valse Celebre" (Moskowsky).
"Prelude" (Rachmaninoff).
4.23 p.m.—Victor Harding, baritone:
"The Carpet" (Sanderson).
"Oh, Could I But Express in Song" (Malahkin).
4.30 p.m.—Station Orchestra:
"Ballet Dornroschen" (Tschalkowsky).
"Legende" (Wieniawski).
4.40 p.m.—Howard Andrews, bass:
"I Pitch My Lonely Caravan at Night" (Coates).
"What a Wonderful World it Would Be" (Lohr).
4.47 p.m.—Station Orchestra:
"Second Mazurka" (Godard).
"Valse Triste" (Sibelius).
EVENING SESSION
5 p.m.—Recordings of the world's most famous artists.

NIGHT SESSION.

8 p.m.—All Sporting results.
8.30 p.m.—Studio Band:
Selection: "The Desert Song."
8.45 p.m.—Minnie Marks, soprano:
"Cradle Song" (Schubert).
"Just a Cottage Small" (Hanley).
8.52 p.m.—Studio Band:
"Forest Flowers."
9 p.m.—Sundowners' Quartette:
"Swing Along" (Cook).
"Nigger Medley" (Foster).
9.7 p.m.—Vera Buck, piano:
"Sonata in C Major" (Scarlatti).
Selected.

9.22 p.m.—Herbert Sanderson, baritone:
"Border Ballad" (Cowan).
"Why Shouldn't I" (Russell).
9.29 p.m.—Studio Band:
March, "Holyrood."
Overture, "Gabriana."
9.39 p.m.—Sundowners' Quartette:
"Chloe" (Moret).
"Yankee Rose" (Frankl).
9.46 p.m.—C. E. Monteath, F.R.C.O., organ recital, transmitted from St. Peter's Church:
"Funeral March on the Death of a Hero" (Beethoven).
"Entr'Acte, No. 2," from "Rosamunde" (Schubert).
"Introduction and Adagio from Organ Sonata No. 2" (Mendelssohn).
"Sanctus from the Requiem Mass" (Mozart).
10.4 p.m.—Minnie Marks, soprano:
"Bird of Love Divine" (Haydn Wood).
"The Little Old Garden" (Hewitt).
10.11 p.m.—Studio Band:
Selection, "Merry Widow."
10.21 p.m.—Robert Allen, also:
"I Heard You Go By" (Daniel Wood).
"A Banjo Song" (Sidney Homer).
10.28 p.m.—Studio Band:
March, "The King's Cavalier."
Cornet, "Sad and Lonely" (Ada B. Rutherford).
10.38 p.m.—Sundowners' Quartette:
"Songs My Mother Taught Me" (Dvorak).
"Has Sorrow Thy Young Days Shaded" (Moore).
10.45 p.m.—Studio Band:
Intermezzo, "The Fireflies Parade."
"Oh, Dem Golden Slippers."
10.55 p.m.—Late Sporting results.
10.58 p.m.—Weather forecast.
11 p.m.—God Save the King.

4QG, BRISBANE

SATURDAY, 10th NOVEMBER, 1928

EARLY MORNING SESSION.

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

MORNING SESSION.

11 a.m.—From Buranda:
The complete morning service will be relayed from the Seventh Day Adventist Church at Buranda.
12.15 p.m.—Close down.

NO MIDDAY TRANSMISSION.

AFTERNOON SESSION.

From Ascot, Q.T.C. races.
5 p.m.—Close down.

EARLY EVENING SESSION.

6 p.m.—New bulletin for distant listeners, supplied by courtesy of "The Queenslander."
6.30 p.m.—Bedtime stories conducted by "Uncle Ben."
7.15 p.m.—Racing results.
7.20 p.m.—To-day's sporting news described.
7.30 p.m.—Sailing notes by Mr. Fred Smith.

NIGHT SESSION.

The Metro Male Quartette.
A programme by the Metro Male Quartette Party.
8 p.m.—From the Studio:
Metro Male Quartette:
"O Salutaris" (Persippi).
A. Smith, tenor:
"Sally in Our Alley" (Carey).
W. A. Davies, elocutionist:
"Hanging a Picture" (Jerome).
Metro Male Quartette:
"A Mistake" (Hunt).
L. Sheridan, baritone:
"Inter Nos" (McFayden).

E. Watson, pianist:
"Nocturne F Minor," Op. 25 No. 1" (Chopin).
J. Dean, tenor:
"Star of the Desert" (Bonheur).
W. A. Davies, bass:
"Beloved, it is Morn" (Alyward).
Metro Male Quartette:
"Because" (D'Hardelot).
8.45 p.m.—Some electrically-reproduced records

LENNON'S BALLROOM—SPEEDWAY.

At suitable times during the later part of the evening, descriptions of motor cycle races will be relayed from the Davies Park Speedway. Dance music will also be relayed from Lennon's Ballroom.
10 p.m.—From the Studio:
Late news; Weather news. Close down.

5CL, ADELAIDE

SATURDAY, 10th NOVEMBER, 1928

MORNING SESSION.

11 a.m.—G.P.O. Chimes.
11.1 a.m.—Special late selections for Flemington races supplied by Eric Welch, 3LO's Special Sporting Commissioner.
11.3 a.m.—"The Advertiser" general news service.
11.20 a.m.—British Official wireless news.
11.25 a.m.—Studio "Recreator."
Recital of Parlophone recordings.
11.45 a.m.—Special late selections for Flemington races supplied by Eric Welch, 3LO's Special Sporting Commissioner.
11.55 a.m.—5CL's Sporting Calendar.
12 noon.—G.P.O. Chimes and close down.

AFTERNOON SESSION.

1 p.m.—From Victoria Park:
A running description of Tattersalls Meeting by Mr. Arnold Treloar.
2.10 p.m.—From Flemington Racecourse.
A running description of C. B. Fisher Plate, one mile and a half, by Eric Welch.
5 p.m. (Approx.)—Close down.

EVENING SESSION.

6 p.m.—G.P.O. Chimes.
6.1 p.m.—Resume of sporting.
6.10 p.m.—Children's Happy Moments:
Birthday Greetings, Correspondence, Songs and Stories by "The Wattle Lady."
6.40 p.m.—Dinner Music:
Recital of Parlophone Recordings on the Studio "Recreator."
7 p.m.—G.P.O. Chimes.
7.1 p.m.—S. C. Ward and Co.'s Stock Exchange information.
7.10 p.m.—Rev. G. E. Hale, B.A.:
Talk, "How to punctuate."
7.25 p.m.—Talk on the afternoon's sporting events.
7.35 p.m.—C. G. Riley:
Will speak on "Items of Interest."
7.45 p.m.—5CL's Sporting Service by "Silvius"

NIGHT SESSION.

8 p.m.—G.P.O. Chimes.
8.1 p.m.—Elder String Trio:
Maud Puddy, Piano.
Chas. Schilsky, violin.
Harold Parsons, cello.
"Trio in B Flat" (Schubert).
8.10 p.m.—Molly Mackay, soprano:
"April Morn" (Batten).
"Castles in the air" (Scottish Song).
8.17 p.m.—Elder String Trio:
"Trio in B Flat" (Continued) (Schubert).
8.27 p.m.—Wattie and Graham, entertainers:
A humorous interlude.
8.37 p.m.—Howard Bauerochse, tenor, and George Cowley, baritone, Vocal duetists:
"Arise O Sun" (Day).
"Homing" (Del Riego).
8.44 p.m.—Harold Parsons, cellist:
"Gavotte" (Popper).

7ZL, HOBART

SATURDAY, 10th NOVEMBER, 1928

MIDDAY SESSION.

- 8.50 p.m.—Molly Mackay, soprano:
"Spring" (Henschel).
"Songs my mother taught me" (Dvorak).
- 8.57 p.m.—Maud Puddy, pianist:
Pianoforte recital.
Special selections.
- 9.7 p.m.—Wattie and Graham, entertainers:
In a humorous interlude.
- 9.17 p.m.—Elder String Trio:
"Trio in D Minor" (Schumann).
- 9.35 p.m.—Howard Bauerochse, tenor, and
George Cowley, baritone:
"I did not know" (Trotter).
"For you alone" (Geehl).
"Home sweet home" (Bishop).
- 9.45 p.m.—Chas. Schilsky, violinist:
Selected numbers.
- 9.52 p.m.—Wattie and Graham, entertainers:
In a humorous interlude.
- 10 p.m.—G.P.O. Chimes.
- 10.1 p.m.—5CL's Sporting service by "Silvius."
Including a resume of to-day's sporting in-
cluding Flemington and Tattersalls races,
yachting and rowing.
- 10.20 p.m.—On With the Dance:
By courtesy of 3LO Melbourne:
Modern dance numbers by The Radi-o-aces.
- 11 p.m.—God Save The King.

6WF, PERTH

SATURDAY, 10th NOVEMBER, 1928

MIDDAY SESSION.

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

AFTERNOON SESSION.

SPORTING SESSION.

- A running commentary will be given of the
racing events, relayed from Perth Race-
course, Ascot.
- 3.30 p.m.—Musical programme from the studio,
including vocal and instrumental numbers.
General sporting news.
- 5.15 p.m.—Close down.

EVENING SESSION.

- 6.45 p.m.—Tune in.
The evening transmission is broadcast on
104.5 metres as well as the usual wavelength.
- 6.48 p.m.—Stories for the Kiddies by Uncle
Duffy and the Radio Bird.
Fairy stories for the Tiny Tots by Auntie
Amy.
- 7.5 p.m.—Sports results.
- 7.20 p.m.—Stocks, Markets, news.
- 7.45 p.m.—Talk.
- 8 p.m.—Time signal.
- 8.1 p.m.—Weather notes supplied by the Me-
teorological Bureau of Western Australia.
Station announcements such as alterations
to programmes, etc.
- 8.3 p.m.—Music and Song.
Musical programme from the studio, includ-
ing vocal and instrumental artists.
Motor cycling events described in detail, re-
layed from Claremont Speedway.
- 9 p.m.—Late news items by courtesy of "The
Daily News" Newspaper Co.
Ships within range announcement.
Weather report and forecast.
Station announcements.
Sports results.
- 10.30 p.m.—Close down.

104.5 METRE TRANSMISSION.

Simultaneous broadcast on 104.5 metres of
programme given on 1250 metres, commen-
cing at 6.45 p.m.

- 11.30 a.m.—Melody Making Moments.
- 11.34 a.m.—Special Midlands Weather fore-
cast.
- 11.35 a.m.—Tasmanian Stations, 9 a.m. weather
report.
- 12 noon.—G.P.O. Clock chimes the hour.
- 12.1 p.m.—Shipping information.
Ships within wireless range.
Mail notices.
Commercial news.
- 12.8 p.m.—Melody Making Moments.
- 12.11 p.m.—British Official News.
- 12.30 p.m.—Anticipations, 3LO Sporting Com-
missioner, Last minute selections for Mel-
bourne Races.
- 12.33 p.m.—Melody Making Moments.
- 12.45 p.m.—"Mercury" news service.
- 1 p.m.—Running description of Batman Stakes,
1 mile, run at Flemington, Victoria.
- 1.5 p.m.—Melody Making Moments.
- 1.30 p.m.—Close down.
- 1.40 p.m.—Running description of Flemington
Stakes, 6 furlongs, run at Flemington, Vic-
toria.
- 1.45 p.m.—Close down.
- 2.40 p.m.—Running description of C. B. Fisher
Plate, 1 mile and a half, run at Flemington,
Victoria.
- 2.45 p.m.—Close down.

AFTERNOON SESSION.

- 3 p.m.—G.P.O. Clock chimes the hour.
- 3.1 p.m.—Description of Military Gymkhana
Sports held at North Hobart Ground by
"Olympus."
- 3.15 p.m.—Transmission from T.C.A. Ground,
Cricket Match, South Hobart v. North West,
described by A. M. O'Leary.
- 3.30 p.m.—Running description of V.R.C. Han-
dicap, 1 mile and three quarters, run at
Flemington, Victoria.
- 3.35 p.m.—Transmission from T.C.A. Ground,
Cricket Match, South Hobart v. North West,
described by A. M. O'Leary.
- 3.45 p.m.—All Sporting results to hand.
- 3.50 p.m.—Description of Military Gymkhana
Sports held at North Hobart Ground by
"Olympus."
- 4 p.m.—Transmission from T.C.A. Ground,
Cricket Match, South Hobart v. North West,
described by A. M. O'Leary.
- 4.10 p.m.—All Sporting results to hand.
- 4.20 p.m.—Running description of Victoria
Steeplechase, 3 miles, 1 furlong, run at
Flemington Victoria.
- 4.25 p.m.—Description of Military Gymkhana
Sports held at North Hobart Ground by
"Olympus."
- 4.40 p.m.—Transmission from T.C.A. Ground,
Cricket Match, South Hobart v. North West,
described by A. M. O'Leary.
- 5 p.m.—Running description of Final Handi-
cap, 1 mile and a quarter, run at Flemington,
Victoria.
- 5.5 p.m.—All Sporting results to hand.
- 5.10 p.m.—Close down.
During the afternoon progress will be
given of Sandy Bay v. New Town, at T.C.A.
Ground.

EARLY EVENING SESSION.

CHILDREN'S HOUR.

- 6 p.m.—All Sporting results to hand.
- 6.15 p.m.—Melody Making Moments.
- 6.45 p.m.—"Uncle David" will entertain the
wee folk.
- 7 p.m.—Answers to Letters and Birthday
Greetings, by "Uncle David."
- 7.5 p.m.—Melody Making Moments.
- 7.15 p.m.—"Mercury" special information.
Hobart Stock Exchange Quotations.
To-day's Golf, Athletics, Racing, Cricket.
"Mercury" late sporting.
Results of New Town Egg Laying Competi-
tion, Homing.

EVENING SESSION.

- 7.30 p.m.—Mrs. E. I. Hughes, President of
Committee of Home of Mercy, will speak on:
"Baby's Feeling."

- 7.45 p.m.—Tickle Whyte, Australian Olympic
Representative Article on:
"Sprint Running."
- 8 p.m.—G.P.O. Clock chimes the hour.
- 8.1 p.m.—Fifty Years ago:
"All our past proclaims our future."
(Swinburn).
- 8.2 p.m.—Melody Making Moments.
- 8.30 p.m.—Transmission from the Continental,
Macquarie Street, Hobart.
Dance Music by the Continental Orchestra.
Conductor, Theo. Pipkin.
Interspersed with Gramophone Records and
Player Rolls.
Continental Orchestra.
- 10.2 p.m.—British Official Wireless news.
"Mercury" special Interstate news service.
Ships within wireless range.
Tasmanian District Weather reports.
- 10.24 p.m.—God Save The King.
Close down.

Sunday, November 11

New South Wales Broadcasting
Company, Limited.

2FC, SERVICE.

NOTE: On the Morning of Sunday, 11th
November, The New South Wales Broad-
casting Company, Limited, will entertain
the Manager, the Captain and Members
of the English Cricket Team at the Studios,
96-98 Market Street, when a programme
will be broadcast on dual wave lengths of
28.5 metres for overseas reception, and
442 metres for local listeners. Arrange-
ments have been made for the members of
the English Team to broadcast messages to
their Counties at Home, and the British
Broadcasting Corporation will relay same
from 2LO, London. A musical programme
will also be transmitted. Arrangements
have been made for several stations in the
United States of America to attempt to pick
up and relay this transmission.

MORNING SESSION.

- 10.0 a.m.—"Big Ben" and Announcements.
- 10.2 a.m.—News Service.
- 10.15 a.m.—From Newcastle:
Organ Recital from the Newcastle Cathedral.
- 11.0 a.m.—The Morning Service from the
Newcastle Cathedral.
- 12.15 p.m.—Close Down.

AFTERNOON SESSION.

- 2.30 p.m.—Programme Announcements.
- 2.32 p.m.—Children's Session, conducted by
A. S. Cochrane.
During this session, Master Eric Fox, Boy
Soprano, will sing the following items:
(a) "Love's Old Sweet Song" (Molloy).
(b) "Sun Flakes" (Montague Phillips).
- 5.0 p.m.—"Big Ben." From the Lyceum Hall,
Pitt Street: Pleasant Sunday Afternoon
Programme, arranged by the Central Metho-
dist Mission.

Armistice Service:

"Our Nation mourns with pride,
Her Heroes who have died."
National Anthem,
Prayer.

Remarks by Rev. H. C. Foreman, M.A.

- 3.5 p.m.—Baritone Solos:
(a) "The Last Call" (Sanderson).
(b) "Vale" (Russell).
Stan Kay.
- 3.16 p.m.—Recitations:
(a) "They Shall Come Home" (Rodriguez
Quinn).
(b) "The Shrine" (Anderson).
Brunton Gibb.
- 3.24 p.m.—"A Nation's Gratitude,"
Rev. A. J. Gould.
- 3.40 p.m.—Notices; Offertory.
- 3.42 p.m.—Band Selection.
- 3.50 p.m.—Contralto Solos:
(a) "Abide With Me" (Liddle).
(b) "Ombra Mai Fu" (Handel).
M. Turnbull.

- 3.56 p.m.—"In Solemn Remembrance"
Hon. Albert Bruntnell, M.L.A.
4.21 p.m.—2 Minutes Silence (all standing).
4.23 p.m.—"Last Post," Cenotaph Trumpeter,
L. J. Josephs.
4.27 p.m.—Acknowledgments.
4.30 p.m.—National Anthem.
"The Nation that remembers cannot be
forgotten."
Retiring Selections by the Band.
4.35 p.m.—From the Studio:
Musical Items.
5.0 p.m.—Close Down.

EVENING SESSION.

- 6.0 p.m.—"Big Ben" and Announcements.
6.2 p.m.—Madame Evelyn Grieg (Piano), and
Rene Rich (Violin):
Concerto (Paganini).
6.17 p.m.—Madame Evelyn Greig, Pianoforte
Solos:
(a) "Nocturne Op. 15 No. 2" (Chopin).
(b) "Mazurka in B Minor" (Chopin).
6.24 p.m.—Rene Rich, Violin Solos:
(a) "Reverie" (Vieuxtemps).
(b) "Valse Bluettes" (Drigo-Auer).
6.35 p.m.—From the Congregational Church,
Pitt Street:
Organ Recital, by Lilian Frost:
(a) "Trumpet Voluntary" (Purcell).
(b) "The Flowers of the Forest" (arr.
Bridge).
(c) "Largo" (Handel).
(d) "Andante" (Mendelssohn).
7.0 p.m.—The Evening Service from the Con-
gregational Church (Pitt Street), conducted
by Rev. T. E. Ruth.
During the service the following musical
items will be rendered:
Vocal Solo, Sir Charles Rosenthal (Bari-
tone).
Anthem, "Hymn of Peace" (Kahn).
Ladies' Chorus, "O Lovely Peace" (Handel).
Approx:
8.30 p.m.—From the Central Hall, Newcastle:
Organ Solo, "Humoresque" (Dvorak).
Edward Molyneux (Musical Director, Cen-
tral Methodist Mission).
Tenor:
(a) "Trees" (Rasbach).
(b) "Five Souls" (Ewer).
Hamilton Band, Selection.
Musical Monologue, Charles Lawrence.
Violin Solo, Maggie Foster.
Soprano Solos:
(a) "Let the Bright Seraphim" (Handel).
(b) "An Old Garden"
Madame Rachel le Patourel, L.R.A.M.,
A.R.C.M.
Pianoforte Solos:
(a) "Nocturne" (Chopin).
(b) "Concert Polonaise" (Englemann).
Carlton Fay.
Tenor Solos:
(a) "The Lamps of Paradise" (Squire).
(b) "Ailsa Mine" (Newton).
Hamilton Band, Selection.
Organ, "Andantino" (Lemare).
Edward Molyneux.

Approx.

- 10.15 p.m.—From the Studio, Sydney:
Musical Items.

- 10.30 p.m.—National Anthem. Close Down.

NOTE: Between 9 p.m. and 9.30 p.m. we
will endeavour to rebroadcast items from
the ceremony which will take place at the
London Cenotaph at 11 a.m. this morning.
This will be broadcast by 2LO London, as
well as 5SW Chelmsford, for reception
overseas.

Although the time is not suitable for
the best reception in Australia, it is hoped
our listeners will have an opportunity of
listening to this impressive service.

2BL, SERVICE.

SUNDAY, 11th NOVEMBER, 1928.

MORNING SESSION.

Note.—On the morning of Sunday, 11th
November, the New South Wales Broad-
casting Company, Limited, will entertain the
Managare, the Captain and Members of the
English Cricket Team at the Studios, 96-98
Market Street, when a programme will be

broadcast on dual wave lengths of 28.510
metres for overseas reception, and 442
metres for local listeners. Arrangements
have been made for the memhrs of the
English Team to broadcast messages to their
counties at Home, and the British Broad-
casting Corporation will relay same from
2LO London. A musical programme will
also be transmitted. Arrangements have
been made for several stations in the
United States of America to attempt to
pick up and relay this transmission.
Announcer A. C. C. STEVENS.

- 11 a.m.—Service broadcast from Newtown
Congregational Church.
Minister, Rev. Mearns Massie.

- 12.15 p.m.—"Sun" News Service.

- 12.30 p.m.—Musical programme from the
Studio.

- 1 p.m.—G.P.O. Clock and Chimes.

A special interlude of serious and lighter
selections from famous Empire writers,
appropriate to the day we celebrate. Nar-
rated by Mr. V. Upton Brown, with musical
illustrations arranged by Miss Jeannette
Patterson:

- (a) "Rule Britannia."
(b) "The Star of Australasia" (Henry
Lawson).
(c) "That V.C." (A. B. Paterson).
(d) "My Son" ("Dryblower").
(e) "Got-a-Fag" (C. J. Dennis).
(f) "The Charge of the Light Brigade"
(Alfred, Lord Tennyson).

- 1.25 p.m.—Musical programme from the
Studio.

- 2 p.m.—G.P.O. Clock and Chimes.

Close down.

AFTERNOON SESSION.

- 3 p.m.—G.P.O. Clock and Chimes.

Broadcast from the Sydney Town Hall,
Citizens' Meeting—Armistice Day—or-
ganised by the League of Nations' Union,
with numerous other organisations co-
operating. Speakers will include:

- Sir Henry Braddon.
Hon. E. A. McTiernan, ex-Attorney General.
Mrs. Muscio, President of the National
Council of Women.

The Grand Organ will be in use and special
musical items will be rendered by the Welsh
Choral Society.

- 4.15 p.m.—The Manly Municipal Military Band
(Conductor, Mr. J. Pheloung). Broadcast
from Ocean Beach, Manly:

- (a) March, "For Freedom's Flag" (Crosby).
(b) "Hymn, 'Lest we forget.'"
(c) Overture, "Triumph" (Suppe).
(d) Romance, "Farewell" (Ancliffe).
(e) Fantasia, "Trafalgar" (Miller).

Music from the Studio:

- (f) Selection, "Sybil" (Jacobi).
(g) Fox Trot, "Last Night I Dreamed of
You" (Lombardo).
(h) Waltz, "Wedding of the Winds" (Hall).
(i) March, "Peace with Honor" (Brahn).

- 5 p.m.—G.P.O. Clock and Chimes.

Close down.

EVENING SESSION.

- 5.40 p.m.—Children's Session, conducted by
Uncle Peter.

- 7.15 p.m.—Service broadcast from Chalmers
Presbyterian Church.

Minister, Rev. D. F. Brandt.

- 8.30 p.m.—The Manly Municipal Military
Band, broadcast from Ocean Beach, Manly:

- (a) "Grand Military Tattoo" (Rogan).
(b) Trombone solo, "Lend me your aid"
(Gounod).
(Soloist, Bandsman W. Charlesworth).
(c) Reverie, "Golden Memories" (Weidt).
(d) Selection, "Maritana" (Wallace).
(e) Fox Trot, "Just like a melody" (Don-
aldson).

- (f) Selection, "Lilac Time" (Schubert).

- 9.30 p.m.—From the Studio:

Weather report and forecast, by courtesy of
Government Meteorologist.

Mr. Norman Janson, baritone.

- 9.37 p.m.—Talk on "Armistice Day," by Mr.
Brunton Gibb.

- 9.52 p.m.—Mr. Norman Janson.

- 9.59 p.m.—Resume of following day's pro-
gramme.

- 28.510 p.m.—G.P.O. Clock and Chimes.

National Anthem.

Accompanist G. VERN BARNETT.
Note.—Between 9 p.m. and 9.30 p.m. we
will endeavour to rebroadcast items from
the ceremony which will take place at the
London Cenotaph at 11 a.m. this morning.
This will be broadcast by 2LO London, as
well as 5SW Chelmsford, for reception over-
seas.

Although the time is not suitable for the
best reception in Australia, it is hoped our
listeners will have an opportunity of listen-
ing to this impressive service.

2GB, SYDNEY

SUNDAY, 11th NOVEMBER, 1928.

MORNING SESSION.

- 10.15 a.m.—Organ Music from St. Alban's
Church, Redfern.

- 10.30 a.m.—Morning Service from St. Alban's
Church.

- 12 noon.—Close down.

EVENING SESSION.

- 5.30 p.m.—Children's Session by Uncle George.

- 7 p.m.—Lecture from Adyar Hall.

- 8 p.m.—The Ladies Choir.

- 8.22 p.m.—Cello Solo by Mr. Cedric Ashton.

- 8.32 p.m.—Clement Hosking Quartette.

- 8.40 p.m.—Pianoforte solos by Miss Ada Brook.

- 8.50 p.m.—Vocal Duets by Miss Elsie Brown,
and Miss Eva Croft.

- 8.58 p.m.—Recital by Mr. Heath Burdock.

- 9.8 p.m.—The Ladies Choir.

- 9.16 p.m.—Cello solos by Mr. Cedric Ashton.

- 9.24 p.m.—Clement Hosking Quartette.

- 9.32 p.m.—Close down.

2UW, SYDNEY

SUNDAY, 11th NOVEMBER, 1928.

MORNING SESSION.

- 10.30 a.m.—Music.

- 1 p.m.—Close down.

EVENING SESSION.

- 5.30 p.m.—Bedtime stories by Uncle Jack.

- 6.30 p.m.—Musical programme.

- 10 p.m.—Close down.

3LO, MELBOURNE.

SUNDAY, 11th NOVEMBER, 1928.

MORNING SESSION.

Announcer JOHN STUART.

- 10.30 a.m.—Bells from St. Paul's Cathedral.

- 10.45 a.m.—Express train information. British
Official Wireless News from Rugby. News
from Yesterday's Papers.

- 11 a.m.—MORNING SERVICE FROM TOO-
RAK PRESBYTERIAN CHURCH:

Invocation.

Hymn No. 477.

Old Testament Lesson.

Prayer, Thanksgiving and Confession.

Prose Chant 90.

New Testament Lesson.

Prayer—Intercessory.

Metrical Psalm No. 124, 2nd Version.

Address to Children.

Lord's Prayer.

Children's Hymn No. 513.

Intimations.

Offertory and Anthem, "I Will Sing of Thy
Power" (Sullivan).Sermon, REV. JOHN MACKENZIE, M.A.
Prayer.

Hymn 511.

Benediction.

- 12.15 p.m.—Close down.

AFTERNOON SESSION.

- Announcer JOHN STUART.
 2 p.m.—SONORA RECITAL OF THE
 WORLD'S MOST FAMOUS RECORDS:
 1. ORCHESTRAL:
 "Three Fanciful Etchings" (Ketelby).
 Albert Ketelby's Concert Orchestra, con-
 ducted by the Composer.
 (a) "A Passing Storm Cloud on a Summer
 Day."
 (b) "The Ploughman Homeward Plods His
 Weary Way". Parts 1 and 2.
 (c) "Quips and Cranks and Wanton Wiles."
 Scene de Ballet Ruse.
 "In a Fairy Realm" (Ketelby).
 (a) "The Moonlit Glade."
 (b) "The Queen-Fairy Dances."
 2. PIANO SOLO:
 "Liebestraum"—Dream of Love (Liszt).
 Percy Grainger, piano.
 3. ARIA:
 "Credo" ("Otello") (Verdi).
 Riccardo Stracciari, baritone.
 4. VIOLIN SOLO:
 "Chanson Arabe" (Rimsky-Korsakov and
 Kreisler).
 Toscha Seidel.
 5. PIANO SOLOS:
 "Sonata in A Major" (Schubert).
 Op. 120.
 Part 1: Allegro Moderato (continued).
 Part 2: Allegro Moderato (continued).
 Part 3: Andante (continued).
 Part 4: Andante (concluded).
 Allegro (continued).
 Part 5: Allegro (concluded).
 "Rosamunde"—Ballet music, Op. 26 (Schu-
 bert).
 6. SONGS:
 "Der Erlkönig"—The Erl King (Schubert).
 "Tod Und Das Mädchen"—Death and the
 Maiden (Schubert).
 Sophie Braslau, contralto.
 8 p.m.—PLEASANT SUNDAY AFTERNOON
 SERVICE, Wesley Church, Central Mission:
 Hymn No. 57, "O for a thousand tongues to
 sing."
 Prayer, Rev. C. Irving Benson.
 Orchestral Selection, G. M. Williams, con-
 ductor.
 Hymn No. 37, "Jesus, keep me near the
 Cross."
 J. Alexanduer Brown.
 Orchestra.
 Notices.
 Offering.
 Orchestra.
 ADDRESS, HON. R. G. MENZIES, M.L.C.
 National Anthem.
 Benediction.
 4.30 p.m.—Sonora Recital.
 4.45 p.m.—MR. JUSTICE HIGGINS will speak
 on: "World's Peace and Disarmament."
 5.5 p.m.—Close down.

EVENING SESSION.

CHILDREN'S HOUR.

- 5.45 p.m.—Shipping information.
 5.47 p.m.—Answers to Letters and Birthday
 Greetings by "John the Piper's Son."
 6.25 p.m.—"BROTHER BILL":
 "That's Not Cricket."
 6.45 p.m.—Birthday Greetings and Programme
 Announcements.
 6.47 p.m.—Bells from St. Paul's Cathedral,
 Melbourne.

NIGHT SESSION.

- Announcer FRANK HATHERLEY.
 Accompanist MABEL NELSON.
 7 p.m.—EVENING SERVICE from ALL
 SAINTS' CHURCH, ST. KILDA:
 Hymn 435, A. and M.
 Evensong Psalm 150, "O Praise God in His
 Holiness."
 1st Lesson, Ecclesiasticus 44. Ver. 1-15.
 Magnificat, Stanford in B flat.
 2nd Lesson, Revelations 21. Ver. 1-7.
 Nunc Dimittis, Stanford B Flat.
 Apostles' Creed.
 Prayers.
 Anthem, "I Behold and Lo."
 Hymn, "The Supreme Sacrifice."
 Procession of Choir to the Memorial Shrine.

DEDICATION OF SHRINE BY THE
ARCHBISHOP OF MELBOURNE.

- Hymn 546, A. and M.
 Te Deum.
 The Blessing.
 Hymn 437, A. and M., "For All the Saints."
 The Mayor and Councillors of St. Kilda
 will attend officially.
 8.30 p.m.—MALVERN TRAMWAY BAND:
 Overture, "Pique Dame" (Ven Suppe).
 8.40 p.m.—RENE BREGOZZO, violin:
 "Scenes de Ballet" (Beriot).
 8.50 p.m.—J. ALEXANDER BROWNE, bari-
 tone:
 "Sleep on, Dear Souls" (Hollingdrake).
 "Requiem."
 8.57 p.m.—J. HOWLETT ROSS will speak on
 "ARMISTICE DAY."
 9.12 p.m.—MALVERN TRAMWAYS BAND:
 "March Militaire" (Schubert).
 Cornet solo, Selected.
 9.20 p.m.—J. ALEXANDER BROWNE, bari-
 tone:
 "In the Silence" (Loughborough).
 "There is No Death" (O'Hara).
 9.27 p.m.—RENE BREGOZZO, violin:
 "Vision" (Drdla).
 "Souvenir" (Drdla).
 "Serenade" (Drdla).
 9.37 p.m.—MALVERN TRAMWAYS BAND:
 "The Black Knight" (Rimmer).
 Idyll, "Meditation" (Elgar).
 9.50 p.m.—"Argus" news service. Announce-
 ments. Meteorological information.
 10 p.m.—OUR GREAT THOUGHT.
 10.1 p.m.—Close down.

3AR, MELBOURNE

SUNDAY, 11th NOVEMBER, 1928.

MORNING SESSION.

- 10.45 a.m.—Announcements.
 10.50 a.m.—Special Armistice Service, from
 Scots' Church, Collins Street. Preacher,
 the Rev. W. Borland, D.D. Organist,
 Mansley Greer.
 Psalm (Metrical Version), 100.
 Prayer.
 Psalm 72.
 Chants 268 and 269.
 Old Testament Lesson.
 Hymn 150.
 Prayer of Intercession.
 New Testament Lesson.
 Anthem, from "Mount of Olives" "Halle-
 lujah, Power and Glory" (Beethoven).
 Lord's Prayer.
 Sermon: Rev. W. Borland, D.D.
 Prayer.
 Intimation.
 Offering.
 Offertory, "Land of Hope and Glory"
 (Elgar).
 Hymn 339.
 Benediction.

MIDDAY SESSION.

- Announcer MAURICE DUDLEY.
 12.15 p.m.—Lifelike reproductions of the
 World's Famous Artists.
 2 p.m.—Close down.

AFTERNOON SESSION.

- 3 p.m.—Annual Memorial Service of the Vic-
 torian Scottish Regiment Association,
 transmitted from Scots' Church, Mel-
 bourne. Chaplain, Rev. Charles Neville.
 National Anthem.
 Prayer of Invocation.
 Scripture Reading, O.T. Lesson, 2nd
 Samuel, 23, 1-17.
 Selection by Choir. Footscray Choral So-
 ciety, conductor E. Simmons, assisted by
 Williamstown Orchestral Society.
 Psalm 100.
 New Testament Lesson: Hebrews 11, 32-40.
 Hymn, "Abide with Me."
 "Land of Hope and Glory," Footscray
 Choral Society.
 Prayer.

Hymn, "Onward, Christian Soldiers."
 Lord's Prayer.
 Collection in aid of the Monument.
 Address: The Rev. H. Clark, M.C., M.A.
 Lament, "Flowers of the Forest," Pipe-
 Major J. MacLennan.
 Benediction.

CHILDREN'S SESSION.

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

EVENING SESSION.

- 5.30 p.m.—Demonstration of the union of Art
 and Science.

NIGHT SESSION.

- Announcer MAURICE DUDLEY.
 Accompanist VERA BUCK.
 7 p.m.—Services from Wesley Church, Lens-
 dale Street, Melbourne.
 Doxology.
 Invocation.
 Hymn.
 Prayer.
 Hymn.
 Solo.
 Scripture Reading.
 Anthem.
 Notices and Offering.
 Sermon: Rev. C. Irving Benson's Monthly
 Book Sermon.
 Hymn.
 Benediction.
 8.30 p.m.—Strad Trio (Cecil Parkes, violin;
 May Broderick, piano; Frank Johnstone,
 'cello):
 "Trio" (Reissiger).
 "Allegro."
 "Scherzo."
 8.43 p.m.—Syd. L. Exton, tenor:
 "Be Thou Faithful Unto Death," from St.
 Paul.
 "Christ in Flanders."
 8.50 p.m.—The Ladies of the Southern Choral
 Society, under the direction of Graham
 Burgin:
 Mrs. Graham Burgin, soprano:
 "The Boat Song."
 "The Lass with the Delicate Air."
 Chorus:
 "When Twilight Weaves Her Gentle
 Spell."
 "O, Can Ye Sew Cushions."
 Mr. Graham Burgin, baritone:
 "The Love Lily."
 "The Arrow and the Song."
 Chorus:
 "Encintured with a Twine of Leaves."
 "Follow Me Down to Carlow."
 9.12 p.m.—Cecil Parkes, violin:
 "Ave Maria" (Schubert).
 "Valse Bluette" (Drigo).
 "Ballet Music" from "Rosamunde" (Schu-
 bert).
 "Spanish Dance" (Sarasate).
 9.25 p.m.—Winifred Moverley, locutionist:
 "Armistice" (C. J. Dennis).
 "What the Little Drum Said" (Mary Gil-
 mour).
 9.35 p.m.—Syd. L. Exton, tenor:
 "Crossing the Bar" (Willeby).
 "Where'er You Walk" (Handel).
 9.42 p.m.—Strad Trio:
 "Romance" (Hummel).
 "Andante" (Beethoven).
 "Marche Militaire" (Schubert).
 9.52 p.m.—"Age" news service, exclusive to
 3AR.
 9.58 p.m.—Weather forecast.
 9.59 p.m.—Our Australian Good-night quote.
 10 p.m.—God Save the King.

4QG, BRISBANE

SUNDAY, 11th NOVEMBER, 1928.

MORNING SESSION.

The complete morning service will be re-
 layed from St. Paul's Presbyterian Church,
 Spring Hill.

11 a.m.—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.

EARLY EVENING SESSION.

CHILDREN'S HOUR.

6.30 p.m.—From the studio:
Greetings to little listeners and replies to letters.

NIGHT SESSION.

7 p.m.—From St. Paul's:
Children's service.
7.30 p.m.—Evening service.
From Wickham Park:
Band concert.
9.30 p.m.—Close down.

5CL, ADELAIDE

SUNDAY, 11th NOVEMBER, 1928.

Morning Service from St. Bartholomews
Church, Norwood.
Announcer J. L. NORRIS.

MORNING SESSION.

10.45 a.m.—Carillon of Bells from St. Andrew's
Church, Walkerville.
10.55 a.m.—Station announcements.
11 a.m.—G.P.O. Chimes.
11.1 a.m.—Morning Service from St. Barthe-
lomew's Church, Norwood.
Morning Prayer with Prayers for World
Peace.
Scout Troop Parade.
Psalms, 135.
Lessons, Proverbs 1, 20 to end.
St. Luke, 16, 13 to end.
Hymns, 165, 231, 275.
Anthem, "There is a green hill" (Wheeler).
Sermon, "Blessed are the Peace Makers."
Preacher, Ven. Archdeacon Moyes.
12.15 p.m.—British Official Wireless news.
12.20 p.m.—Close down.

AFTERNOON SESSION.

3 p.m.—G.P.O. Chimes.
3.1 p.m.—Armistice Day Service from Elder
Park, Torrens Lake arranged by the Council
of Churches.
The Premier of South Australia, (Hon. R.
L. Butler) will move, and The Leader of the
Opposition (Hon. L. L. Hill) will second
the motion:
Supported by:
Representative of The Bishop of Adelaide
(Dr. Nutter Thomas). Mr. J. Howard
Vaughan, Representative of Country Party.
Rev. A. C. Stevens.
Vocal numbers by: Derbyshire Male Quar-
tette.
4.30 p.m.—Close down.

EVENING SESSION.

8 p.m.—G.P.O. Chimes.
8.1 p.m.—Children's Happy Moments:
Birthday Greetings, Correspondence, Songs
and stories by "Aunty Peggy."
8.30 p.m.—"The Bird Lady," and her Junior
Choir.
Stories and hymns.
8.55 p.m.—S. A. Railway Information and
Station announcements.

NIGHT SESSION.

7 p.m.—G.P.O. Chimes.
7.1 p.m.—Evening Service from Maughan
Church, Franklin Street.
Rev. W. H. Cann, will conduct an Armistice
service, and a choir of Fifty Voices will
render hymns and music.

FROM THE STUDIO.

8.20 p.m.—Holden's Silver Band:
"Song of Australia."
"For King and Country" (Bidgood).

8.31 p.m.—Elsy Woolley, mezzo:
"Oh, Love from thy power" from "Samson
and Delilah" (Saint-Saens).
"A little winding road" (Ronald).
8.37 p.m.—Holden's Silver Band:
"Napolean."
"My Blue Heaven" (Donaldson).
8.45 p.m.—James Riley, tenor:
"Mother O' Mine" (Towis).
"The Trumpeter" (Dix).
8.52 p.m.—Sylvia Whittington, violiniste:
"Allegretto" (Boccherini).
"Theme and Variations" (Partini).
9 p.m.—G.P.O. Chimes.
9.1 p.m.—Meteorological information.
9.2 p.m.—Holden's Silver Band:
"After Sunset" (Jones).
"Pride of Scotland" (Round).
9.10 p.m.—Elsy Woolley, mezzo:
"We'd better bide awae."
"A Pearl for every Tear" (Liddle).
9.18 p.m.—Holden's Silver Band:
"Moon Madrigale" (Willesby).
9.23 p.m.—James Riley, tenor:
"Oft in the stilly night" (Old Irish).
"What a Wonderful World" (Lohr).
9.30 p.m.—Sylvia Whittington, violiniste:
"Minuet" (Beethoven).
"Slavonic Dance" (Zimbalist).
9.37 p.m.—Holden's Silver Band:
Selection, "The Maid of the Mountains"
(Simson).
9.45 p.m.—P. H. Nicholls:
Talk on, "Tenth Anniversary of Armistice
Day."
10 p.m.—G.P.O. Chimes.
10.1 p.m.—Meteorological information.
10.3 p.m.—British Official Wireless news.
10.5 p.m.—Holden's Silver Band:
"God Save The King."
10.7 p.m.—Close down.

6WF, PERTH

SUNDAY, 11th NOVEMBER, 1928.

MORNING SESSION.

10.25 a.m.—Tune in.
10.30 a.m.—Special half hour for the en-
thusiastic listener.
11 a.m.—Morning service relayed from St.
Andrew's Church, St. George's Terrace,
Perth.
Preacher, Rev. Geo. Tulloch.
12.15 p.m.—Close down.

AFTERNOON SESSION.

3.30 p.m.—Tune in.
3.35 p.m.—Music and Song.
Musical programme from the studio, includ-
ing vocal and instrumental artists.
4.30 p.m.—Close down.

EVENING SESSION.

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

7ZL, HOBART

SUNDAY, 11th NOVEMBER, 1928.

MORNING SESSION.

10.45 a.m.—Bells from Trinity Church,
Hobart.
11 a.m.—Transmission from Memorial Con-
gregational Church, Hobart:

Armistice Day Service.
Preacher, Rev. Arthur C. Nelson.
Hymns Nos. 574, 715, 575, 579.
Scripture Readings: Revelations XXI: 1-4.
Revelations XXII: 1-5.
Sermon: "War and the Christian Ethic."
12.25 p.m.—Close down.

AFTERNOON SESSION.

3 p.m.—G.P.O. Clock Chimes the Hour.
3.1 p.m.—Transmission from the City Hall,
Hobart:
Armistice Day Service.
Speakers:
The Premier, Hon. J. C. McPhee.
A Representative of the Labour Party.
E. E. Unwin, of Friend's High School.
Subject, "World's Disarmament Movement."
Interspersed with Band items and Congre-
gational Singing.
4.30 p.m.—Close down.

EARLY EVENING SESSION.

CHILDREN'S HOUR.

6.30 p.m.—Nursery Rhymes, by the Discus
Ensemble.

EVENING SESSION.

7 p.m.—Transmission from Melville Street
Methodist Church, Hobart.
8.25 p.m.—Transmission from St. David's
Park, Hobart:
A Band Concert.

NEWS SESSION.

9.40 p.m.—"Mercury" special News Service.
Ships within wireless range. British Offi-
cial Wireless News. English Affairs and
News.
"God Save the King."
Close down.

Monday, November 12

New South Wales Broadcasting
Company, Limited.

2FC, SERVICE.

EARLY MORNING SESSION.

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

MORNING SESSION.

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

MIDDAY SESSION.

11.55 a.m.—From the Syney Cricket Ground:
Details of the International Cricket Match,
England versus New South Wales, to be
played to-day.
12.1 p.m.—From the Studio:
Stock Exchange, first call.

2BL, SERVICE.

MONDAY, 12th NOVEMBER, 1928.

MORNING SESSION.

- 8 a.m.—G.P.O. Clock and chimes.
Metropolitan weather report.
- 8.1 a.m.—State Weather report.
- 8.2 p.m.—Studio music.
- 8.15 a.m.—G.P.O. Clock and chimes.
News from the "Daily Telegraph Pictorial."
- 8.25 a.m.—Studio music.
- 8.30 a.m.—G.P.O. Clock and chimes.
Studio music.
- 8.35 a.m.—Information, Mails, Shipping, arrivals, departures and sailings.
- 8.38 a.m.—News from the "Daily Telegraph Pictorial."
- 8.45 p.m.—G.P.O. Clock and chimes.
Studio music.
- 9 a.m.—G.P.O. Clock and chimes.
Studio music.
- 9.30 a.m.—Half an hour with silent friends.
- 10 a.m.—G.P.O. Clock and chimes.
Close down.

MIDDAY SESSION.

- 11 a.m.—G.P.O. Clock and chimes.
Women's Session.
Sporting talk by Miss Gwen Varley, Women's Sports Authority.
- 11.15 a.m.—Talk in Electricity in the Home.
- 11.30 a.m.—Miss Pam—Recipes and other items of interest.
- 12 noon.—G.P.O. Clock and chimes.
Special Ocean forecast and weather report.
- 12.3 p.m.—Studio Music.
- 12.30 p.m.—Shipping and mails.
- 12.35 p.m.—Markets reports.
- 12.48 p.m.—"Sun" midday news service.
- 1 p.m.—Studio music.
- 1.30 p.m.—Talk to Children and special entertainment for children in hospitals.
- 2 p.m.—G.P.O. Clock and chimes.
Close down.

AFTERNOON SESSION.

- 2.15 p.m.—G.P.O. Clock and chimes.
From the Sydney Cricket Ground. Description of play in the International Cricket Match, England versus N.S.W.
- 3.15 p.m.—Close down.
- 3.45 p.m.—G.P.O. Clock and chimes.
Miss Anne Melhuish, soprano:
(a) "Porgi Amor" (Mozart).
- 3.52 p.m.—Musical programme from the studio
- 4 p.m.—Bennie Abrahams and his Romano's Restaurant Band broadcast from Romano's.
- 4.10 p.m.—Miss Hazel McGilvray, mezzo soprano:
"The Violet" (Mozart).
- 4.14 p.m.—"Sun" news service.
- 4.22 p.m.—Bennie Abrahams and his Romano's Restaurant Band broadcast from Romano's.
- 4.30 p.m.—Miss Anne Melhuish, soprano:
(a) "Peace" (Schubert).
(b) "Sing low sweet chariot" (Burlingame).
- 4.37 p.m.—Mr. Roger Jones, baritone:
(a) "I heard you singing" (Coates).
(b) "I sometimes wonder" (Ross).
- 4.44 p.m.—"Sun" news.
- 4.48 p.m.—Miss Hazel McGilvray:
"The Almond Tree" (Schumann).
- 4.52 p.m.—Mr. Roger Jones:
(a) "Hills of Heaven" (Lohr).
(b) "Friendships" (Lohr).
- 4.59 p.m.—Features of evening's programme.
- 5 p.m.—From the Sydney Cricket Ground: Description of the International Cricket Match, England, versus New South Wales.

EARLY EVENING SESSION.

- 6 p.m.—Children's letters and stories.
- 6.50 p.m.—"Sun" news and late sporting.
- 6.40 p.m.—Gulbransen Dinner Music.
- 7.10 p.m.—Australian Mercantile Land and Finance Co.'s report.
Weather report and forecast by courtesy of Govt. Meteorologist.
Producers Distributing Society's Fruit and Vegetable Market report.
Grain and Fodder report ("Sun").
- 7.25 p.m.—Mr. Pim and Miss Pam in advertising talks and nonsense.
- 7.55 p.m.—Programme and other announcement.

EVENING SESSION.

- 8 p.m.—G.P.O. Clock and Chimes.
2BL Topical Chorus.
- 8.3 p.m.—From the King's Cross Theatre:
E. J. Roberts conducting the King's Cross Theatre Orchestra. At the Organ, Mr. Joseph Wayne.
- 8.20 p.m.—"A Musical Cocktail," by the Four Bright Spirits:
Dorothy Dewar.
Mavis Walker.
Jack Buchanan.
Stan Crawford.
- Part 1.
- 8.45 p.m.—Miss Hilda Grace, novelty pianist:
(a) "Lopeziana" (Alter).
(b) "Patsy" (Perry).
- 8.52 p.m.—The Four Bright Spirits: Part 2.
- 9.12 p.m.—Weather report and forecast, by courtesy of Government Meteorologist.
- 9.13 p.m.—"African Tales," by Mr. R. C. Jones.
- 9.2 p.m.—Miss Hilda Grace:
(a) "A few moments at the piano" (Alter).
(b) "Hot Ivories" (Sinatra).
- 9.34 p.m.—Radio Eisteddfod: A number of semi-finalists will be heard, drawn from the various sections, as follows:
Choral Section—Choirs drawn from those entering under Section 1—Church Choirs; Section 2—Mixed Choirs; Section 3—Male Choir; Section 4—Female Choir; Section 5—Mixed Quartet; Section 6—Male Quartet.
Instrumental Section—Semi-finalists from the Instrumental Section include: Section 14—Championship Pianoforte Solo; Section 15—Pianoforte Solo, under 16 years of age.
Popular Section—Semi-finalists from the Popular Section include: Section 27—Popular Vocalists; Section 28—Comedians; Section 29—Radio Revue, and Section 30—Entertainers.
- 10.14 p.m.—From the King's Cross Theatre: King's Cross Theatre Orchestra.
- 10.30 p.m.—Radio Eisteddfod (as above).
- 10.50 p.m.—Resume of following day's programme.
- 10.53 p.m.—Bennie Abrahams and his Romano's Restaurant Dance Band, broadcast from Romano's. During intervals between dances "Sun" news will be broadcast.
- 11.30 p.m.—National Anthem.

2GB, SYDNEY

MONDAY, 12th NOVEMBER, 1928.

MORNING SESSION.

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

AFTERNOON SESSION.

- 2 p.m.—Music.
- 2.5 p.m.—Women's Radio Service by Mrs. Dorothy Jordan.
- 2.30 p.m.—Music.
- 3 p.m.—Address by Mr. H. Morton.
- 3.15 p.m.—Music.
Close down.

EVENING SESSION.

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

- 12.3 p.m.—Official weather forecast, rainfall.
- 12.5 p.m.—From the Sydney Cricket Ground: Description of the play and progress scores of the match, England versus New South Wales.
- 1.30 p.m.—From the Studio:
Stock Exchange, second call.
- 1.32 p.m.—Weather forecast.
- 1.34 p.m.—"Evening News" midday news service.
Producers Distributing Society's Report.
- 1.42 p.m.—Rugby wireless news.
- 1.45 p.m.—Studio Music.
- 2 p.m.—"Big Ben." Close down.

AFTERNOON SESSION.

- 2.30 p.m.—Programme announcements.
- 2.32 p.m.—Educational Session for the Schools: Subject, "Everyday Things of the Past," interspersed with suitable music.
- 3 p.m.—"Big Ben."
- Studio Music: Pianoforte reproduction.
- 3.15 p.m.—From the Sydney Cricket Ground: Continuation of the description of play in the International Cricket Match, England versus New South Wales, with progress scores at intervals until the afternoon tea adjournment at 4 p.m.
- 4 p.m.—"Big Ben."
- From the Studio: Musical item.
- 4.15 p.m.—From the Sydney Cricket Ground: Further description of the International Cricket Match, England versus New South Wales.
- 5 p.m.—"Big Ben." Close down.
- Note.—Cricket scores and descriptions will be given through 2BL Service until stumps drawn.

EARLY EVENING SESSION.

- 5.40 p.m.—The chimes of 2FC.
- 5.45 p.m.—The Children's Session, conducted by the "Hello Man."
Letters and stories.
Music and entertainment.
- 6.30 p.m.—Dalgety's market reports (wool, wheat and stock).
- 6.40 p.m.—Fruit and vegetable markets.
- 6.43 p.m.—Stock Exchange information.
- 6.45 p.m.—Weather and shipping news.
- 6.48 p.m.—Rugby wireless news.
- 6.50 p.m.—Late sporting news.
- 7 p.m.—"Big Ben." Late news service.
- 7.10 p.m.—The 2FC Dinner Quartet, conducted by Horace Keats:
"Scherzo" (Gade).
"Gumnut's Dance" (Railton).
"Three Irish Dances" (Ansell).
"At Dawning" (Cadman).
"Serenata Siciliana" (Bece).
"Valse Suite" (Brahms).

NIGHT SESSION.

- 7.40 p.m.—Programme Announcements.
- 7.47 p.m.—Cricket Resume for New Zealand enthusiasts.
- 7.49 p.m.—Raymond Lambert, Belgian Pianist:
(a) "Polonaise E Flat Major" (Chopin).
(b) "Valse A Flat" (Chopin).
(c) "Liebestraum" (Liszt).
- 8.0 p.m.—"Big Ben."
- The New South Wales Broadcasting Company's Orchestra, conducted by Willie Redstone.
- 8.20 p.m.—Raymond Lambert, Belgian Pianist,
(a) "Jeune d'eau" (Ravel).
(b) "Nocturne" (for the left hand only). (Scriabine).
- 8.30 p.m.—From the Maccabean Hall, Darlinghurst:
Jewish War Memorial Conversations. Speech by Brigadier General Lloyd.
- 9.0 p.m.—"Big Ben." Late weather Forecast.
From the Studio.
- 9.1 p.m.—From the Conservatorium of Music: Items from the Testimonial Concert, to Elaine Penniford:
Elaine Penniford, Violinist.
Ils Turnbull, Soprano.
- 9.40 p.m.—From the Studio:
N.S.W. Broadcasting Company's Orchestra.
- 10.0 p.m.—"Big Ben." Graham Kent, Bridge Talk.
- 10.12 p.m.—N.S.W. Broadcasting Company's Orchestra.
- 10.27 p.m.—Tomorrow's Programme and Late News.
- 10.30 p.m.—National Anthem. Close Down.

2 UW, SYDNEY

MONDAY, 12th NOVEMBER, 1928.

MIDDAY SESSION.

12.30 p.m.—To-day's anniversary.
 12.32 p.m.—Music.
 1 p.m.—Clock and chimes.
 1.1 p.m.—Music.
 2 p.m.—Political address.
 2.15 p.m.—"Cheerio Talk."
 2.30 p.m.—Close down.

AFTERNOON SESSION.

4.30 p.m.—Music.
 5.30 p.m.—Bedtime stories by "Uncle Jack."
 6.30 p.m.—Close down.

EVENING SESSION.

7 p.m.—Clock and chimes.
 7.1 p.m.—News items, etc.
 7.10 p.m.—Talk by Mr. J. M. Prentice.
 7.30 p.m.—Musical Interlude.
 7.35 p.m.—Political address.
 7.55 p.m.—Items of interest.
 8 p.m.—Clock and chimes.
 8.1 p.m.—Music.
 9 p.m.—Clock and chimes.
 9.1 p.m.—Comments on Foreign affairs by Mr. J. M. Prentice.
 9.10 p.m.—Music and request numbers.
 10 p.m.—Close down.

3LO, MELBOURNE

MONDAY, 12th NOVEMBER, 1928.

EARLY MORNING SESSION.

7.15 a.m.—Express Train Information.
 7.16 a.m.—Morning Melodies.
 7.20 a.m.—Morning Exerciss to Music.
 7.30 a.m.—Stock Reports. Market Reports.
 General News. Shipping. Sporting information.
 8 a.m.—Melbourne Observatory Time Signal.
 8.1 a.m.—Morning Melodies.
 8.15 a.m.—Close down.

MORNING SESSION.

Announcer MAURICE DUDLEY.
 10.50 a.m.—ERIC WELCH will speak on to-day's races at Williamstown.
 11 a.m.—3LO'S CULINARY COUNSELS, or How to Create Creature Comforts with a Minimum of Cash.

RECIPE.

POTATO CROQUETTES.

1lb. potatoes (cooked).
 Little chopped parsley.
 1 tablespoon milk.
 1 oz. butter or fat.
 1 egg.
 Breadcrumbs.

Mash potatoes, add butter, chopped parsley, pepper and salt. Add a little grated cheese if at hand. Beat up egg and mix with the milk. Add one tablespoon to potatoes. Mix into stiff lump. Put one tablespoon flour on the board. Take one tablespoon of the potato mixture out, and place it on the flour. With two knives form it into neat rounds. Have egg on plate and breadcrumbs on kitchen paper. Dip rounds of potato carefully into the egg. Brush egg well over. Then toss the round of potato into the crumbs. Have frying fat ready. Fry till a golden brown (about 2 minutes). Drain on paper. Serve on hot dish on paper d'oyley. Garnish with a little parsley.

11.5 a.m.—MISS OLGA PARKER:
 Stories to tell the Children: "The Happy Prince."
 11.20 a.m.—Musical Interlude.
 11.25 a.m.—MISS RAY HARRIS:
 "Free Kindergarten Work."
 11.40 a.m.—Musical Interlude.
 11.45 a.m.—Under the auspices of the National Safety Council, H. J. BUCK will speak on:
 "Some Aspects of Safety."

MIDDAY SESSION.

12 noon.—Melbourne Observatory Time Signal.
 Express train information.
 12.1 p.m.—British Official Wireless News from Rugby. Reuter's and the Australian Press Association Cables. "Argus" news service.
 12.15 p.m.—Newmarket stock sales. Special report by John McNamara and Co.

COMMUNITY SINGING.

12.20 p.m.—COMMUNITY SINGING, transmitted from the Assembly Hall, Collins Street, Melbourne. Conductor, G. J. MAC-KAY, assisted by the GYPSY PLAYERS.
 SOLOISTS:
 VICTOR HARDING, bass:
 "The Desert" (Emanuel).
 "What the Red-Haired Bo'sun Said" (Harry).
 JESSIE IRWIN, soprano:
 "Thank God for a Garden" (del Riego).
 "Happy Song" (del Riego).

FROM THE STUDIO.

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

AFTERNOON SESSION.

Announcer MAURICE DUDLEY.
 Accompanist AGNES FORTUNE.
 1.57 p.m.—Description of the Cup Hurdle Race, two miles, at Williamstown Races, by ERIC WELCH.
 2.5 p.m.—THE STATION ORCHESTRA:
 Overture, "Tannhauser". (Wagner).
 2.15 p.m.—VICTORIA WILSON, soprano:
 "A Nightingale Near a Wood" (Bainton).
 "A Lovely Evening in Summer" (Grieg).
 2.22 p.m.—THE STATION ORCHESTRA:
 "Allegro Moderato from 5th Symphony" (Tschaiakowsky).
 "Adagio Expressive" (Schumann).
 2.32 p.m.—Description of the Tok-Year-Old Handicap, 5½ furlongs, Williamstown Races.
 2.40 p.m.—FRANK HARWOOD, (by permission Tivoli Theatres Ltd.):
 Character Vocalist.
 2.47 p.m.—TASMA TIERNAN, 'cello:
 "Serenade" (Drigo).
 2.54 p.m.—VICTORIA WILSON, soprano:
 Selected.
 "Swing Low, Sweet Chariot."
 (Negro Spiritual) (Burleigh).
 3.1 p.m.—THE STATION ORCHESTRA:
 Selection, "Betty" (Rubens).
 3.13 p.m.—Description of the Williamstown Cup, 1½ miles, Williamstown Races.
 3.20 p.m.—BERTHA JORGENSEN, violin:
 "Scherzo" (Dittersdorf-Kreisler).
 3.25 p.m.—FRANK HARWOOD:
 Character Vocalist.
 3.32 p.m.—THE STATION ORCHESTRA:
 "Ballet Russe" (Luigini).
 3.43 p.m.—Description of the Steeplechase, about two miles, at Williamstown Races.
 ONE-ACT PLAY.
 3.50 p.m.—"The Dream House," by Bertha Moore:
 He REX SINCLAIR.
 She LOUISE MOOREHEAD.
 4.10 p.m.—THE STATION ORCHESTRA:
 "Betty in Mayfair" (Simpson).
 4.13 p.m.—Description of the Alfons Handicap, one mile, at Williamstown Races.
 4.25 p.m.—ARCHIE and WATTIE:
 Patter Specialists.
 4.32 p.m.—THE IMPERIAL RUSSIAN TRIO:
 Arved Norit, violin:
 "Chanson Meditation" (Cottinet).
 John Berzinsky, 'cello:
 "Esquise" (Vital).
 The Trio:
 "Trio in D Major" (Beethoven).
 Allegro Vivace con bris.
 4.47 p.m.—Description of the Ozane Welter, 6 furlongs, at WILLIAMSTOWN RACES.

NEWS SESSION.

4.54 p.m.—"Herald" news service. Stock Exchange information.
 5.5 p.m.—Acceptances and barrier positions for the Sandbury Races, to be held on Wednesday.

5.10 p.m.—Close down.

During the afternoon progress scores of the Cricket Match, England versus New South Wales, will be given as they come to hand. Also Victoria v. South Australia at M.C.G.

EVENING SESSION.

CHILDREN'S HOUR.

Announcer MAURICE DUDLEY.
 6 p.m.—Answers to Letters and Birthday Greetings by "BILLY BUNNY."
 6.25 p.m.—Musical interlude.
 6.30 p.m.—CAPTAIN DONALD McLEAN has a story to tell you of ADVENTURE—Hold your breath and Listen:
 Pirates! Caves! Treasure!!
 6.50 p.m.—"BILLY BUNNY" has also something to tell you.

NIGHT SESSION.

Announcer C. J. O'CONNOR.
 Accompanist AGNES FORTUNE.
 7.5 p.m.—Stock Exchange information.
 7.15 p.m.—Official report of the Newmarket Stock Sales by the Associated Stock and Station Agents, Bourke Street, Melbourne. Fish market reports by J. R. Borrett Ltd. Rabbit prices. River reports. Market reports by the Victorian Producers' Co-operative Company Ltd. Poultry, grain, hay, straw, jute, dairy produce, potatoes and onions. Market reports of fruit by the Victorian Fruiterers' Association. Retail prices. Wholesale prices of fruit by the Wholesale Fruit Merchants' Association. Citrus fruits.
 7.30 p.m.—News service. Stumps score of the Cricket Match, ENGLAND v. NEW SOUTH WALES, at Sydney. Also VICTORIA v. SOUTH AUSTRALIA, at M.C.G.
 7.43 p.m.—Birthday Greetings.
 7.15 p.m.—Out of the Past.
 7.46 p.m.—Under the auspices of the Department of Agriculture, W. C. RUGG, Poultry Expert, will speak on:
 "Preparation of Table Poultry."
 8 p.m.—A Maker of History.

THE WORKS OF ELGAR.

8.1 p.m.—THE STATION ORCHESTRA:
 "Pomp and Circumstance," Part 1 and 2 (Elgar).
 8.10 p.m.—SYD. EXTON, tenor:
 "Pleading" (Elgar).
 "In Moonlight" (Elgar).
 8.17 p.m.—THE STATION ORCHESTRA:
 Suite, "Crown of India," Part 1 (Elgar).
 8.25 p.m.—GERTRUDE HUTTON, contralto:
 "Queen Mary's Song" (Elgar).
 "A Song of Autumn" (Elgar).
 8.32 p.m.—THE STATION ORCHESTRA:
 "Crown of India," Part II (Elgar).
 "Salut de l'Amour" (Elgar).
 8.40 p.m.—SYD. EXTON, tenor:
 "Blue Mountains" (Elgar).
 "Speak My Heart" (Elgar).
 8.47 p.m.—GUILDFORD RISHOP, violin:
 "Gavotte" (Elgar).
 8.54 p.m.—GERTRUDE HUTTON, contralto:
 "Rondeau" (Elgar).
 "The Shepherd's Song" (Elgar).
 9.1 p.m.—THE STATION ORCHESTRA:
 "Carissima" (Elgar).
 "In Hammersbach" (Elgar).
 9.10 p.m.—THE ROYAL VICTORIAN LIEBERTAFEL (Conductor, Mansley Great).
 Pianist, Wm. Burrell.
 Part Song, "The Wanderer" (Elgar).
 Five Part Songs—Words from the Greek Anthology (Elgar).
 "Yea Cast Me from the Heights of the Mountains."
 "Whether I Find Thee."
 "After Many a Dusty Mile."
 "It's Oh! to be a Wild Wind."
 "Feasting I Watch."
 March Song, "Zut! Zut!"
 9.40 p.m.—"EARTHROUNDER," by ELGAR OWEN:
 Jim Hurdstone MAURICE DUDLEY
 Ronald Cawte WILLIAM TAINSH
 A Voice MRS. MAURICE DUDLEY
 10 p.m.—THE IMPERIAL RUSSIAN TRIO
 (Arved Norit, violin; John Berzinsky, 'cello).

and William Ibster, piano):
 "Trio, B Flat" (Mozart).
 Larghetto.
 Allegro.
 10.15 p.m.—J. HOWARD KING, bass-baritone.
 "I Will Not Grieve" (Schumann).
 "The Month of May" (Schumann).
 10.22 p.m.—"Argus" news service. Meteorological information. British Official Wireless News from Rugby. Announcements.
 10.32 p.m.—THE STATION ORCHESTRA:
 "Prelude" (Jarnfelt).
 "Elegie from Trio D Minor" (Arensky).
 10.40 p.m.—J. HOWARD KING, bass-baritone:
 "The Lute Player" (Allitsen).
 "Three" (Rasbach).
 10.47 p.m.—THE STATION ORCHESTRA:
 "Evolution of Dixie" (Lake).
 10.57 p.m.—Announcements.
 11 p.m.—OUR GREAT THOUGHT for to-day is:
 "Light, whether it be material or moral, is the best reformer."
 —Colton.
 11.1 p.m.—THE RADIO-ACES.
 11.40 p.m.—"GOD SAVE THE KING."

3AR, MELBOURNE

MONDAY, 12th NOVEMBER, 1928.

MORNING NEWS SESSION.

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

MORNING MUSICAL SESSION.

11 a.m.—Radi-o-Aces:
 "Down in Old Havanna Town" (Cadser).
 "Hugs and Kisses" (Alter).
 "Egypt" (Seamon).
 "All Day Long" (Cross).
 11.15 a.m.—Freda Treweek, soprano:
 "Lullaby" (Brahms).
 "A Night in May" (Brahms).
 11.22 a.m.—Radi-o-Aces:
 "Got a Big Date" (Tobias).
 "Sunshine" (Berlin).
 "Gautemala Melody" (Wenrich).
 "Lauretta" (Lewis).
 11.37 a.m.—Dorothy Crawford, contralto:
 "Grey Days" (Johnston).
 "To You" (Oley Speaks).
 11.44 a.m.—Radi-o-Aces:
 "Adoree" (Silver).
 "You've Got to Learn to Smile" (O'Hagan).
 "Dear, on a Night Like This" (Conrad).
 "Never Before, Never Again" (Chik).
 12 noon.—Freda Treweek, soprano:
 "Hindoo Song" (Bemberg).
 "The Valley of Laughter" (Sanderson).
 12.7 p.m.—Radi-o-Aces:
 "Laugh, Clown, Laugh" (Young).
 "There's Something About a Rose" (Kahal).
 "Loved Me" (Wilson).
 "Fascinating Vamp" (Nussbaum).
 12.22 p.m.—Dorothy Crawford, contralto:
 "Ma Curly-Headed Babby" (G. H. Clut-sam).
 "I Heard You Go By" (Daniel Wood).
 12.30 p.m.—British Official Wireless. Announcements.
 12.40 p.m.—Radi-o-Aces:
 "That's My Weakness Now" (Stept).
 "Get Out and Get Under the Moon" (Tobias).
 "What a Baby" (Whiting).
 "The Whisper Song" (Friend).
 1 p.m.—Description of Cricket Match, Victoria v. South Australia, at M.C.G., by Red. McGregor.

1.15 p.m.—Radi-o-Aces:
 "Keep Sweeping the Cobwebs" (Trent).
 "Shanghai Dream Man" (Davis).
 "Just a Memory" (Henderson).
 "Lonesome in the Moonlight" (Baer).
 1.30 p.m.—Close down.

AFTERNOON SESSION.

2 p.m.—Description of Cricket, Victoria v. South Australia, at M.C.G., by Red. McGregor.
 4 p.m.—Interlude from the Studio.
 4.15 p.m.—Resumption of Cricket.
 6 p.m.—Stumps scores.

EVENING SESSION.

6.5 p.m.—A Recital of the World's Greatest Masters.

NIGHT SESSION.

8 p.m.—Under the auspices of the Boy Scouts' Association. F. Sanders: "Scout Work."
 8.15 p.m.—E. C. H. Taylor:
 "School Life and School Sport."
 8.30 p.m.—Alfred Firman:
 "Books of Yesterday, To-day and To-morrow."
 8.40 p.m.—Radi-o-Aces:
 "Last Night I Dreamed You Kissed Me" (Kahn).
 "That's My Mammy" (Donaldson).
 "Honeymoon Cottage" (Lumsdaine).
 8.50 p.m.—Archie and Wattie:
 Froth and Frivolity.
 8.53 p.m.—Radi-o-Aces:
 "I'm Wingin' Home" (Russell).
 "Evening Star" (Turk).
 "Russian Rag" (Stutzel).
 9.3 p.m.—Frank Harwood, character vocalist, by permission Tivoli Theatre, Ltd.:
 Character Impressions.
 9.6 p.m.—Radi-o-Aces:
 "Henry's Made a Lady Out of Lizzie" (O'Keefe).
 "We'll Have a New Home in the Morning" (Buck).
 "In a Bamboo Garden" (Donaldson).
 9.16 p.m.—French Bros., banjoists:
 "It is Gonna be Long?" (Cowan).
 9.19 p.m.—Radi-o-Aces:
 "Anything You Say" (Donaldson).
 "My Melancholy Baby" (Norton).
 "Ice Cream."
 9.29 p.m.—Archie and Wattie:
 Funny Fancies.
 9.32 p.m.—Radi-o-Aces:
 "Don't Cry, Baby" (Kahn).
 "Love Affairs" (Robinson).
 Piano Solo, "Rag Doll" (Brown).
 9.42 p.m.—Frank Harwood, character vocalist:
 Selections from his repertoire.
 9.45 p.m.—Radi-o-Aces:
 "In My Bouquet of Memories" (Lewis).
 "Sentimental Baby" (Davis).
 "Rose of Monterey" (Guy).
 9.55 p.m.—French Bros., banjoists:
 "Lantern of Love" (Wenrich).
 9.58 p.m.—Radi-o-Aces:
 "Red Head" (Ermbey).
 "The Man I Love" (Gershwin).
 "Was it a Dream?" (Brett).
 10.8 p.m.—Archie and Wattie:
 Flippant Moments.
 10.11 p.m.—Radi-o-Aces:
 "Together" (Brown).
 "Mary Ann" (Davis).
 "Tell Me To-night" (Little).
 10.21 p.m.—Frank Harwood, character vocalist:
 Selected.
 10.24 p.m.—Radi-o-Aces:
 "Oh, Doris, Where Do You Live" (Kahn).
 "There's One Little Girl who Loves Me" (Kahn).
 "Polly" (Zamecnik).
 10.34 p.m.—French Bros., banjoists:
 "My Ohio Home."
 10.37 p.m.—Radi-o-Aces:
 "Felix, the Cat" (Naustrom).
 "Delirium" (Schutt).
 "Blue Berry Land" (Bryan).
 10.50 p.m.—"Age" news service, exclusive to 3AR.

10.55 p.m.—Acceptances for Wednesday's races.
 10.58 p.m.—Weather forecast.
 10.59 p.m.—Our Australian Good-night quote.
 11 p.m.—God Save the King.

4QG, BRISBANE.

MONDAY, 12th NOVEMBER, 1928.

EARLY MORNING SESSION.

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

MORNING SESSION.

11 a.m. to 12 noon.

MIDDAY SESSION.

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

AFTERNOON SESSION.

3 p.m.—A programme of electrically reproduced records.
 3.30 p.m.—Mail train running times.
 3.31 p.m.—A recital by Mr. Sampson, F.R.C.O. (City Organist).
 4 p.m.—Afternoon news.
 4.30 p.m.—Close down.

EARLY EVENING SESSION.

6 p.m.—Mail train running times; mail information; shipping news.
 6.5 p.m.—Dinner music.
 6.25 p.m.—Commercial announcements.
 6.30 p.m.—Bedtime stories conducted by "The Sandman."
 7 p.m.—News in brief.
 7.5 p.m.—Stock Exchange news.
 7.6 p.m.—Metal quotations.
 7.7 p.m.—Market reports.
 7.25 p.m.—Fenwick's Stock report.
 7.30 p.m.—Weather information.
 7.40 p.m.—Announcements.
 7.43 p.m.—Standard time signals.
 7.45 p.m.—Lecturette: "Billy Brown's Pig Farm"—by Mr. E. J. Shelton (Instructor in Pig Raising).

NIGHT SESSION.

A recital by Gladys Frost (pianiste) and Lena Hammond (contralto).
 8 p.m.—From the studio:
 Lena Hammond, contralto: "Il Passa" (Bemberg). "Menuet d'Exaupe" (18th Century folk-song). "Venely. Agreeable Printemps" (18th Century folk-song). "Bergere Legere" (18th Cent. folk-song). "Non n'irai plus au Bois" (18th Cent. folk-song). "Jardin d'Amour" (Vuillermoz).
 Gladys Frost, pianiste: "Spring Song" (Mendelssohn). "Venetian Gondola Song" (Mendelssohn). "Two Musical Sketches" (Mendelssohn). "Andante" (Mendelssohn). "Presto" (Mendelssohn).
 Lena Hammond, contralto: "Sapphic Ode" (Brahms). "The Sandman" (Brahms). "Sunday" (Brahms). "The Swallow" (Brahms). "The Forge" (Brahms).
 Gladys Frost, pianiste: "Sonata in F. Major" (Beethoven). First Movement: "Allegro." Second Movement: "Allegretto." Third Movement: "Presto."
 Lena Hammond, contralto: Old English Group: "One Morning Very Early" (arr. Sanderson). "Dame Durden" (Lehmann). "Barbara Allen" (Traditional). "Sigh No More, Ladies" (Traditional). "When Maidens Go a-Maying" (Traditional).
 Gladys Frost, pianiste: "Tarantelle" (Chopin). "Shadow Dance" (MacDowell). "The Top of the Morning" (John Prindale Scott).

9 p.m.—Metropolitan weather forecast.
PART II.—WILFRED SANDERSON'S SONGS.
 9.1 p.m.—Half-an-hour of Wilfred Sanderson's Songs.
 Mary L. Spanger, contralto: "My Dear Soul." "Beyond the Dawn."
 The Studio Orchestra: Selection, "Sanderson's Songs No. 1."
 Stanley Tamblin, bass: "The Company Sergeant-Major." "Devenshire Cream and Cider."
 The Studio Orchestra: Selection, "Sanderson's Songs No. 2."
 Ernest Harper, baritone: "Up from Somerset." "Shipmates o' Mine."
PART III.—ANGLO MALE QUARTETTE.
 9.30 p.m.—A programme by the Anglo Male Quartette:
 May Roberts, soprano: "Happy Song." "Whatever Is, Is Best."
 Anglo Male Quartette: "When Evening's Twilight" (Hatton).
 C.R. Kolb, tenor: "Coblin" (Sanderson).
 Dick Pike, bass: "Undaunted" (Squire).
 Anglo Male Quartette: Popular number, "Coral Sands of Hawaii" (Scott).
 A. F. Stoddart, baritone: "Lay My Head Beneath a Rose."
 C. R. Kolb, tenor, and Dick Pike, bass, Vocal duet, "Soldiers of Fortune" (Hemery).
 Anglo Male Quartette: "Calm is the Sea" (Pfeil).
 10 p.m.—Late news, weather news.
 Close down.

5CL, ADELAIDE.

MONDAY, 12th NOVEMBER, 1928.

MORNING SESSION.

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

MIDDAY SESSION.

12 noon.—G.P.O. Chimes.
 12.1 p.m.—"The Advertiser" general news service.
 12.20 p.m.—British Official Wireless news.
 12.25 p.m.—Mrs. Keith Steward, soprano:
 "A song of thanksgiving" (Allitson).
 "The Carnival."
 12.32 p.m.—O. Summerton, cornetist:
 "My Ain Folk" (Lemon).
 "Midnight Rose" (Pollack).
 12.39 p.m.—Gordon Hele, baritone:
 "Sincerity" (Clarke).
 "The Bandolero" (Stuart).
 12.46 p.m.—Walter Hurst, pianist:
 "Samson and Delilah" (Saint-Saens).
 12.50 p.m.—S. A. Railways Information.
 12.51 p.m.—S. C. Ward and Co.'s Stock Exchange information.
 12.57 p.m.—Meteorological information.
 1 p.m.—G.P.O. Chimes.
 1.1 p.m.—Mrs. Keith Steward, soprano:
 "Farewell to Summer" (Johnson).
 "The Swallow" (Cowen).
 1.7 p.m.—Geoff Goldsworthy, 'cellist:
 "Romance Sans Paroles" (Davidoff).
 "Minuette" (Popper).
 1.14 p.m.—Jack Burgess, songs at the piano:
 "Mine all mine" (Ruby).
 "Drifting and Dreaming" (Gillespie).
 1.21 p.m.—O. Summerton, cornetist:
 "Mountain Lovers" (Squire).
 "Last Rose of Summer" (Moore).
 1.28 p.m.—Gordon Hele, baritone:
 "The Cobblers' Song" (Norton).
 "Uncle Roam" (Homer).
 1.35 p.m.—Geoff Goldsworthy, 'cellist:
 "Broken Melody" (Van Biene).
 "Farewell to Cucullain."
 1.42 p.m.—Jack Burgess, songs at the piano:
 "Gorgeous" (Davis).
 "Just another day" (Turk).
 1.40 p.m.—Walter Hurst, pianist:
 "The Angelus."
 1.53 p.m.—Studio "Recreator:"
 Recital of H.M.V. Recordings.
 1.58 p.m.—Meteorological information.
 2 p.m.—G.P.O. Chimes and close down.

AFTERNOON SESSION.

2.35 p.m.—Studio "Recreator:"
 Recital of H.M.V. Recordings.
 2.40 p.m.—From Williamstown Racecourse:
 A running description of the Williamstown Cup, one mile and a half, by Mr. Eric Welch.
 2.45 p.m.—Studio "Recreator:"
 Recital of H.M.V. Recordings.
 3 p.m.—G.P.O. Chimes.
 3.1 p.m.—International Cricket Scores:
 New South Wales v. England.
 3.3 p.m.—Studio "Recreator:"
 Recital of H.M.V. recordings.
 3.7 p.m.—Dorothy Back, soprano:
 "The promise of life" (Cowan).
 "Husheen" (Needham).
 3.14 p.m.—Harry Hutchins, violinist:
 "Chanson Louis XIII and Pavane" (Kriesler).
 3.21 p.m.—Signor Ulivi, bass-baritone:
 Selections from his repertoire.
 3.29 p.m.—Wattie and Graham, comedy sketch
 Artists:
 A Humorous interlude.
 3.38 p.m.—Studio "Recreator:"
 Recital of Parliaphone recordings.
 3.45 p.m.—Dorothy Back, soprano:
 "The Night Nursery" (Arundale).
 "Blackbirds' Song" (Scott).
 3.52 p.m.—Harry Hutchins, violinist:
 "La Capriceuse" (Elgar).
 "Symphony Espagnole" (Lalo).
 4 p.m.—G.P.O. Chimes.
 4.1 p.m.—International Cricket Scores:
 New South Wales v. England.
 4.3 p.m.—Signor Ulivi, bass-baritone:
 Selections from his repertoire.
 4.10 p.m.—Seth Smith, banjoist:
 "Rosetime" (Fred Hall).
 "A Mexican Ride" (Grimshaw).
 4.17 p.m.—Wattie and Graham, comedy sketch
 artists:
 A Humorous Interlude.
 4.27 p.m.—Muriel Prince, pianiste:
 "Clair de Lune" (De-bussy).
 "The Dancing Doll" (Poldini).
 4.31 p.m.—Syd Morrell, baritone:
 "Across the blue Sea" (Somerset).
 "In Love" (Lohr).
 4.38 p.m.—Seth Smith, banjoist:
 "Darkies' Patrol" (Lansing).
 "William Tell" (Rossini).
 4.45 p.m.—Syd Morrell, baritone:
 "Song of the Clock" (Burchell).
 "Wondrous is the Power" (Bendall).
 4.52 p.m.—Station Orchestra:
 Recital of Parlophone recordings.
 4.57 p.m.—S. C. Ward and Co.'s Stock Exchange information.
 5 p.m.—G.P.O. chimes and close down.

EVENING SESSION.

6 p.m.—G.P.O. Chimes.
 6.1 p.m.—Children's Happy Moments:
 Birthday Greetings, Correspondence, Songs and Stories by "Miss Wireless."
 6.30 p.m.—Dinner music:
 Recital of H.M.V. Recordings on the Studio "Recreator."
 6.55 p.m.—Williamstown race results.
 7 p.m.—G.P.O. Chimes.
 7.1 p.m.—S. C. Ward and Co.'s Stock Exchange information.
 7.5 p.m.—General Market reports.
 7.10 p.m.—International Cricket Scores:
 England v. New South Wales.
 7.15 p.m.—Mr. W. J. Spafford, (Deputy-Director of Agriculture), will give a talk.
 7.30 p.m.—"The Twinkler" (Mr. F. J. Mills):
 Will entertain the 5CL Boy's Club.

NIGHT SESSION.

7.59 p.m.—International Cricket Scores:
 England v. New South Wales.
 8 p.m.—G.P.O. Chimes.
 8.1 p.m.—Station Orchestra:
 Overture, "Queen of Autumn" (Biggs).
 8.16 p.m.—Fred Williamson, tenor:
 "Adelaide" (Beethoven).
 "Mother Machree" (Ball).
 8.17 p.m.—Station Orchestra:
 Polish Dance, "Kuyarak" (Wieniawski).
 8.23 p.m.—Wattie and Graham, Comedy sketch
 Artists:
 A humorous interlude.
 8.33 p.m.—Station Orchestra:
 Novelty, "Jumping Jacks" (Bloom).

8.39 p.m.—Lyric Male Quartet:
 "Cottonfield Melodies" (Parks).
 "Lucky Jim" (Parks).
 8.46 p.m.—Station Orchestra:
 Selection, "The Island King" (Garstin).
 8.53 p.m.—Fred Williamson, tenor:
 "Oft in the stilly night" (Moore).
 "On Wings of Song" (Mendelssohn).
 9 p.m.—G.P.O. Chimes.
 9.1 p.m.—Meteorological information.
 9.2 p.m.—Overseas Grain Report.
 9.3 p.m.—Tom King, pianist:
 "Rush Hour in Hong Kong" (Chasson).
 9.8 p.m.—Signor Ulivi, bass-baritone:
 Selections from his repertoire.
 9.15 p.m.—Station Orchestra:
 "Hejre Kati" (Hubay).
 9.21 p.m.—Wattie and Graham, Comedy Sketch
 Artists:
 A humorous interlude.
 9.31 p.m.—Geoff Goldsworthy, 'cellist:
 "The Swan" (Saint-Saens).
 9.35 p.m.—Elsie Woolley, mezzo:
 "O Lovely night" (Ronald).
 "Bird Songs at Eventide" (Coates).
 9.42 p.m.—Station Orchestra:
 Selection, "The Vagabond King" (Friml).
 9.51 p.m.—Signor Ulivi, bass-baritone:
 Selections from his repertoire.
 9.58 p.m.—Station Orchestra:
 Melodie, "Sizilretta" (Von Blon).
 10 p.m.—G.P.O. Chimes.
 10.1 p.m.—"The Advertiser" general news service.
 10.10 p.m.—Williamstown Racing results.
 10.15 p.m.—International Cricket scores.
 10.20 p.m.—By courtesy of 3LO Melbourne:
 Modern Dance numbers by the Radi-o-aces.
 10.57 p.m.—Meteorological Information, and
 Station announcements.
 11 p.m.—God Save The King.

6WF, PERTH.

MONDAY, 12th NOVEMBER, 1928.

MIDDAY SESSION.

12.30 p.m.—Tune in.
 12.35 p.m.—Markets, news, and cables.
 1 p.m.—Time signal.
 1.1 p.m.—Weather notes supplied by the Meteorological Bureau of Western Australia.
 Station announcements.
 1.2 p.m.—Lunch Hour Music.
 Brunswick Panatrophe hour relayed from Messrs. Musgrove's Limited Concert Hall, Perth.
 2 p.m.—Close down.

AFTERNOON SESSION.

3.30 p.m.—Tune in.
 3.35 p.m.—Afternoon Tea Concert relayed from the Carlton Cafe, Perth.
 Vocal and instrumental numbers from the Studio.
 4.30 p.m.—Close down.

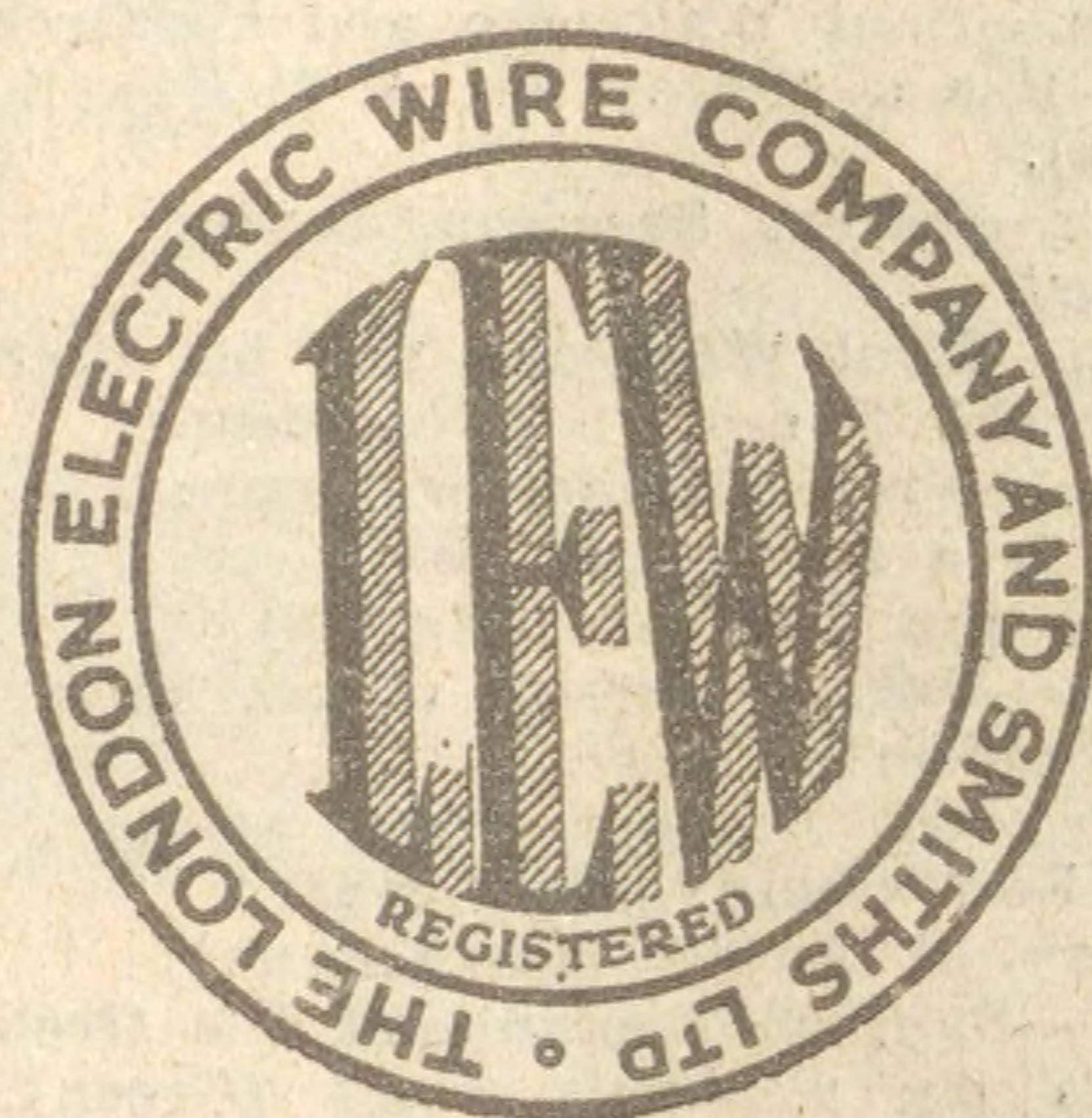
EVENING SESSION.

6.45 p.m.—Tune in.
 The evening transmission is broadcast on 104.5 metres as well as the usual wavelength.
 6.48 p.m.—Stories for the Kiddies by Uncle Henry and Duffy.
 Uncle Henry will talk to the Boys.
 7.5 p.m.—Items by the Studio Trio.
 7.30 p.m.—Stocks, Markets, News.
 7.45 p.m.—Talk by Lieut. Col. Le Souef, Director of the Zoological Gardens, South Perth.
 8 p.m.—Time signal.
 8.1 p.m.—Weather notes supplied by the Meteorological Bureau of Western Australia.
 Station announcements such as alterations to programmes, etc.
 8.3 p.m.—Band Night.
 Concert by the R.S.L. Band, conducted by Mr. W. A. Halvorsen.
 9 p.m.—Late news items by courtesy of "The Daily News" Newspaper Co.
 Ships within range announcement.
 Weather report and forecast.
 Station announcements.
 10.30 p.m.—Close down.
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7ZL, HOBART

MONDAY, 12th NOVEMBER, 1928.

MIDDAY SESSION.

- 11.30 a.m.—His Master's Voice in Moments Merry and Musical.
 11.34 a.m.—Special Midlands Weather Forecast.
 11.35 a.m.—His Master's Voice in Moments Merry and Musical.
 11.55 a.m.—Tasmanian Stations 9 a.m. Weather Report.
 12 noon.—G.P.O. Clock chimes the Hour.
 12.1 p.m.—Shipping information. Ships within wireless range. Mail notices. Commercial news.
 12.8 p.m.—His Master's Voice in Moments Merry and Musical.
 12.29 p.m.—Announcements.
 12.33 p.m.—His Master's Voice in Moments Merry and Musical.
 12.55 p.m.—"Mercury" News Service. Produce Sales held at Railway.
 1.10 p.m.—His Master's Voice in Moments Merry and Musical.
 1.30 p.m.—Close down.
 2 p.m.—Running Description of Cup Hurdle Race, 2 miles, run at Williamstown, Victoria.
 2.5 p.m.—Close down.
 2.35 p.m.—Running description of Two-year-Old Handicap, 5½ furlongs, run at Williamstown, Victoria.
 2.40 p.m.—Close down.

AFTERNOON SESSION.

- 3 p.m.—G.P.O. Clock chimes the hour.
 3.1 p.m.—His Master's Voice in Moments Merry and Musical.
 3.4 p.m.—Weather information.
 3.5 p.m.—His Master's Voice in Moments Merry and Musical.
 3.15 p.m.—Running description of Williamstown Cup, 1 mile and a half, run at Williamstown, Victoria.
 3.20 p.m.—His Master's Voice in Moments Merry and Musical.
 3.45 p.m.—Running description of Steeplechase, about 2 miles, run at Williamstown, Victoria.
 3.50 p.m.—His Master's Voice in Moments Merry and Musical.
 4.5 p.m.—Fashion Talk:
 "Aunt Edna" will speak on:
 "What Children will be Wearing this Season."
 4.20 p.m.—Running description of Altona Handicap, 1 mile, run at Williamstown, Victoria.
 4.25 p.m.—His Master's Voice in Moments Merry and Musical.
 4.30 p.m.—Close down.
 4.50 p.m.—Running description of Ozone Welter, 6 furlongs, run at Williamstown, Victoria.
 4.55 p.m.—Close down.
 During the afternoon progress results will be given of English XI. v. New South Wales, at Sydney.

EARLY EVENING SESSION.

CHILDREN'S HOUR.

- 6.15 p.m.—His Master's Voice in Moments Merry and Musical.
 6.45 p.m.—Ena Jolley (14 years of age, pupil of Madame Viola Pearce), piano recital:
 "Melodie de Amour."
 "Poet and Peasant" (Suppe).
 7 p.m.—Answers to Letters and Birthday Greetings by "Uncle David."
 7.5 p.m.—His Master's Voice in Moments Merry and Musical.
 7.15 p.m.—"Mercury" special Tasmanian News Service. Railway Auction Produce Sales. Weather information. Hobart Stock Exchange. Announcements. This is the anniversary of the sinking of the "Emden."

EVENING SESSION.

- 7.30 p.m.—George Collis, Tasmania's Champion Wrestler, will speak on:
 "Physical Culture and Training."

- 7.45 p.m.—Les. Ainsworth, Divisional Returning Officer for Denison, will speak on:
 "You must record your vote. Absent voting and who can vote."
 8 p.m.—G.P.O. Clock chimes the hour.
 8.1 p.m.—Acknowledgment of donations to 7ZL and "Mercury" appeal for Wireless Equipment for the Hobart General Hospital. Senior Birthday Greetings.
 8.3 p.m.—Fifty Years Ago To-day.
 8.6 p.m.—A Musical Programme by the Discus Ensemble and 7ZL Artists:
 Ed. Brooker, Aeola solos:
 "Annie Laurie" (Lady Jane Scott).
 "Absent" (Metcalf).
 8.13 p.m.—Collegians Symphony Orchestra:
 "Beautiful Ohio."
 8.16 p.m.—Jean Hibbard, soprano:
 "You in a Gondola" (Coningsby-Clarke).
 "Cradle me low" (Brahe).
 8.23 p.m.—Collegians Symphony Orchestra:
 "March of the Toys."
 8.26 p.m.—Ruby Wallace, soprano:
 "Daffodils A'lowing" (German).
 "Meadowsweet" (Brahe).
 8.33 p.m.—Paul Whiteman and his Orchestra:
 "Just like a Melody out of the Sky" (Donaldson).
 8.36 p.m.—Albert Sargison, tenor:
 Selected.
 8.43 p.m.—Paul Whiteman and his Orchestra:
 "Baby don't mean" (Donaldson).
 8.46 p.m.—Fred Heraud, baritone:
 "So fair a flower" (Lohr).
 "Speed the Plough" (Martin).
 8.53 p.m.—Jas. Compton, cornet solo:
 "At Sunrise" (Code).
 8.56 p.m.—Ed. Brooker, Aeola solos:
 "The Lost Chord" (Sullivan).
 "Melody of Love" (Engelmann).
 9.3 p.m.—Paul Whiteman and His Orchestra:
 "That's my weakness now" (Green).
 9.6 p.m.—Jean Hibbard, soprano:
 "Slave Song" (Dehago).
 "Three Green Bonnets" (Hardelot).
 9.13 p.m.—Paul Whiteman and his Orchestra:
 "Felix, the Cat" (Wendling).
 9.16 p.m.—Ruby Wallace, soprano:
 "Break o' Day" (Sanderson).
 "Call of the Maytime" (Brahe).
 9.23 p.m.—Guitar Novelty Trio:
 "Sweet Lei Lehna."
 9.26 p.m.—Albert Sargison, tenor:
 Selected.
 9.33 p.m.—Guitar duet, "Ghost Dance" (Meinken).
 9.36 p.m.—Fred Heraud, baritone:
 "I heard you singing" (Coates).
 "Harlequin" (Sanderson).
 9.43 p.m.—Paul Whiteman and his Orchestra:
 "Chiquita" (Gilbert).
 "Blue Nights" (Robins).

NEWS SESSION.

- 9.50 p.m.—British Official Wireless News Service. Ships within wireless range. Tasmanian District Weather Reports. "Examiner" News Service.
 10 p.m.—G.P.O. Clock chimes the hour.
 10.3 p.m.—"God Save the King."
 10.4 p.m.—Close down.

Tuesday, November 13

New South Wales Broadcasting Company, Limited.

2FC, SERVICE.

EARLY MORNING SESSION.

- 7 a.m.—"Big Ben" and programme announcements.
 7.5 a.m.—Studio Music.
 7.20 a.m.—Country Session: Official weather forecast, rainfall, temperatures, astronomical memoranda, shipping intelligence, mail services.
 7.25 a.m.—Investment market, mining share market, metal quotations.

- 7.35 a.m.—Wool sales, breadstuffs markets, interstate markets, produce markets.
 7.45 a.m.—"Sydney Morning Herald" summary.
 7.50 a.m.—Studio Music.
 8 a.m.—"Big Ben." Close down.

MORNING SESSION.

- 10 a.m.—"Big Ben" and announcements.
 10.2 a.m.—Studio Music.
 10.10 a.m.—"Sydney Morning Herald" news service.
 10.25 a.m.—Studio Music.
 10.30 a.m.—Last minute sporting information by the 2FC Racing Commissioner.
 10.45 a.m.—Studio Music.
 11 a.m.—"Big Ben."
 A.P.A. and Reuter's Cable Services.
 11.5 a.m.—Close down.

MIDDAY SESSION.

- 11.55 a.m.—From the Sydney Cricket Ground: Details of the International Cricket Match, England versus New South Wales, to be played to-day.
 12.1 p.m.—From the Studio:
 Stock Exchange, first call.
 12.3 p.m.—Official weather forecast, rainfall.
 12.5 p.m.—From the Sydney Cricket Ground: Description of the play and progress scores of the match, England versus New South Wales.
 1.30 p.m.—From the Studio:
 Stock Exchange, second call.
 1.32 p.m.—Weather forecast.
 1.34 p.m.—"Evening News" midday news service.
 Producers' Distributing Society's Report.
 1.42 p.m.—Rugby wireless news.
 1.45 p.m.—Studio Music.
 2 p.m.—"Big Ben." Close down.

AFTERNOON SESSION.

- Race results from Gisford will be transmitted as received.
 2.30 p.m.—Programme announcements.
 2.32 p.m.—Educational Session:
 Subject, "How Things Grow," interspersed with suitable music.
 3 p.m.—"Big Ben." Pianoforte reproduction.
 3.15 p.m.—From the Sydney Cricket Ground: Continuation of the description of play in the International Cricket Match, England versus New South Wales, with progress scores at intervals until the afternoon tea adjournment at 4 p.m.
 4 p.m.—"Big Ben."
 From the Studio: Musical item.
 4.15 p.m.—From the Sydney Cricket Ground: Resumption of play and scores of the International Cricket Match, England versus N.S.W.
 5 p.m.—"Big Ben." Close down.
 Note.—2BL will continue to describe the play until stumps drawn at 6 p.m.

EARLY EVENING SESSION.

- 5.40 p.m.—The chime of 2FC.
 5.45 p.m.—The Children's Session, conducted by the "Hello Man."
 Letters and stories.
 Music and entertainment.
 6.30 p.m.—Dalgety's market reports (wool, wheat and stock).
 6.40 p.m.—Fruit and vegetable markets.
 6.43 p.m.—Stock Exchange information.
 6.45 p.m.—Weather and shipping news.
 6.48 p.m.—Rugby wireless news.
 6.50 p.m.—Late sporting news.
 7 p.m.—"Big Ben." Late news service.
 7.10 p.m.—The 2FC Winner Quartet, conducted by Horace Keats:
 "Tender Thoughts" (Elliott).
 "Andante Melodique" (Danila).
 "The Blue Marurka" (Lehar).
 "You Lovely Thing" (Anderson).
 "Autumn and Winter" (Glasgow).
 "Who Knows?" (Ball).

NIGHT SESSION.

- 7.40 p.m.—Programme announcements.
 7.47 p.m.—Studio music.
 7.50 p.m.—Cricket resume for New Zealand enthusiasts.

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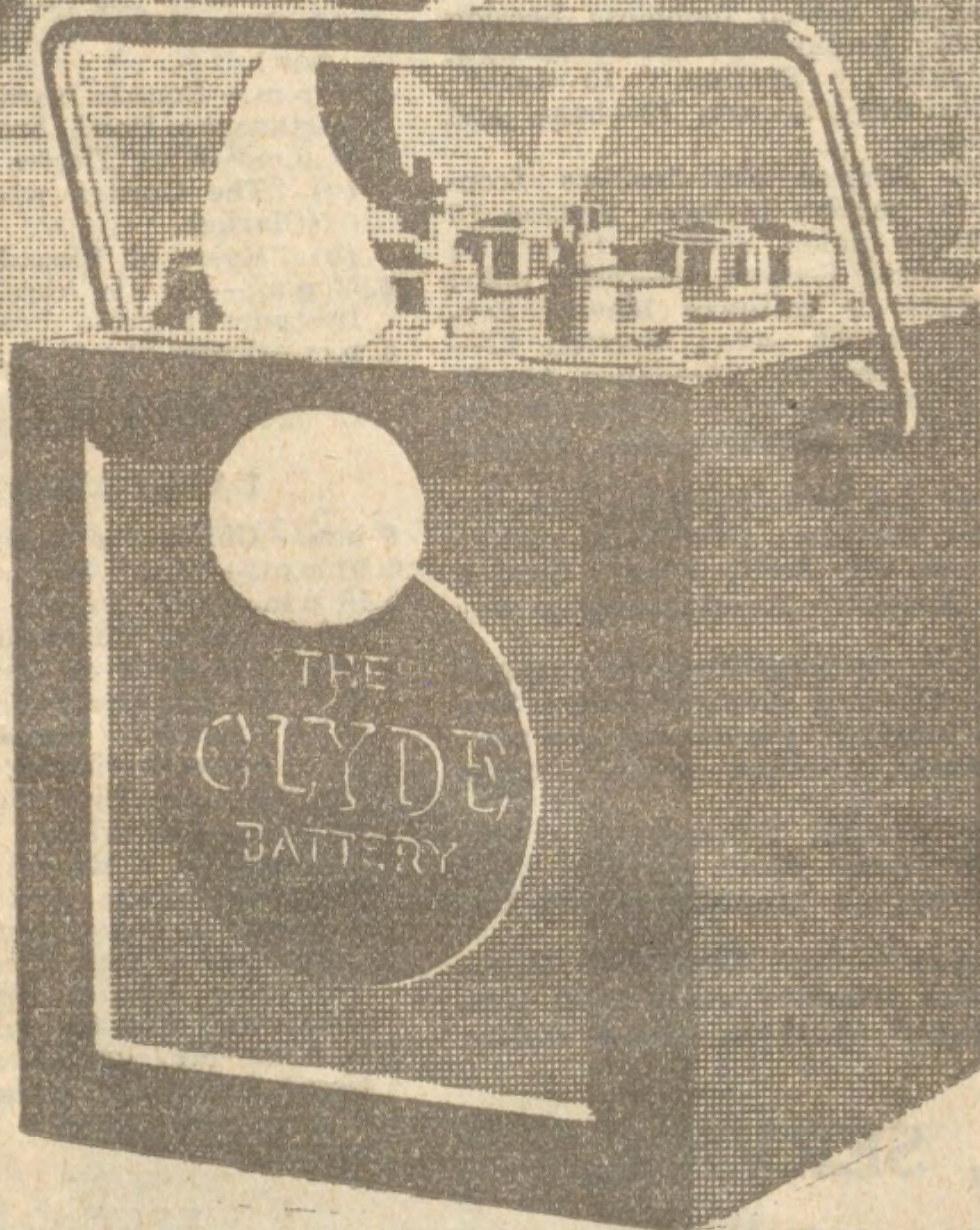
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7.52 p.m.—Studio music.

8 p.m.—"Big Ben."

"Round the Camp Fire."

Half an hour of music, song, poem and story (grave and gay) from the Works of writers and poets of Australasia.

Camp Boss and Narrator .. V. Upton-Brown

(a) Camp Chorus, "Australia."

(b) "From the Wreck" (Adam Lindsay Gordon).

(c) "The Old Master" (C. J. Dennis).

(d) Camp Song, "Coming Home,"

Gwladys Fimister, Soprano.

(e) "Married" (Mary Gilmore).

(f) "Arvie Aspinall's Alarm Clock"

(Henry Lawson).

(g) "Sammy Sundown and His Concertina."

(h) "There's Another Blessed Horse Fell Down" (Paterson).

(i) Hohmestead Chorus: "Auld Lang Syne."

8.30 p.m.—James Donnelly, Tenor.

8.38 p.m.—Maggie Foster, Violin:

(a) "Broken Melody" (Bierne).

(b) "Minuet" (Paderewski).

8.46 p.m.—Gwladys Fimister, Soprano:

(a) "Devotion" (Schumann).

(b) "Thou'rt Like a Lovely Flower" (Schumann).

(c) "The Lotus Flower" (Schumann).

8.55 p.m.—Travel Talk by E. H. Jones.

9.10 p.m.—Late Weather forecast,

Maggie Foster, violinist:

(a) "Londonderry Air."

(b) Request number.

9.20 p.m.—James Donnelly, tenor.

9.28 p.m.—Radio Eisteddfod:

A number of semi-finalists will be heard,

drawn from the various sections as follows:

Vocal Section—Semi-finalists drawn from the Vocal Section, which includes: Section 7—soprano solo; Section 8—mezzo-soprano; Section 9—contralto; Section 10—tenor; Section 11—baritone; Section 12—bass, and Section 13—duets.

Instrumental Section—Smi-finalists from the instrumental section include: Section 16—champion violin solo; Section 17—violin solo undr 16 years; Section 18—cello solo; Section 19—brass or military bands; Section 20—B flat cornet solo; Section 21—Saxophone solo; Section 22—dance bands.

Grand Vocal Championship—Semi-finalists in the Grand Vocal Championship, Section 24.

Elocutionary Sections—Semi-finalists in the elocutionary sections: Section 23—Radio Sketches; Section 24—Radio Plays; Section 25—Debates; Section 26—impromptu announcer.

Australian Compositions—Include entrants under Section 31—best original song; Section 32—best original pianoforte composition, and Section 33—best original violin composition.

10.30 p.m.—Late weather forecast.

Cec Morrison's Dance Band.

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

11 p.m.—"Big Ben." Cec Morrison's Dance

Band in popular numbers until 11.30 p.m.

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

2BL, SERVICE.

TUESDAY, 13th NOVEMBER, 1928.

MORNING SESSION.

8 a.m.—G.P.O. Clock and chimes.

Metropolitan Weather report.

8.1 a.m.—State Weather report.

8.2 a.m.—Studio music.

8.15 a.m.—G.P.O. Clock and chimes.

News service from the "Daily Telegraph Pictorial."

8.25 a.m.—Studio Music.

8.30 a.m.—G.P.O. Clock and chimes.

Studio music.

8.36 a.m.—Information, Mails, shipping, arrivals, departures and sailings.

8.38 a.m.—New service from the "Daily Telegraph Pictorial."

8.45 a.m.—G.P.O. Clock and chimes.

Studio music.

9 a.m.—G.P.O. Clock and chimes.

Studio music.

9.30 a.m.—Half and hour with silent friends.

10 a.m.—G.P.O. Clock and chimes.

MIDDAY SESSION.

11 a.m.—G.P.O. Clock and chimes.

Women's Session.

Talk on "Kindergartens" by Miss Chase, Secretary of the Kindergarten Union of New South Wales.

11.15 a.m.—Talk on "Mothercraft" by Dr. Sanderson Morgan of Tressilian Homes.

11.30 a.m.—Miss Pam—Recipes and other items of interest.

12 noon.—G.P.O. Clock and chimes.

Special Ocean forecast and weather report.

12.3 p.m.—Studio music.

12.30 p.m.—Shipping and mails.

12.35 p.m.—Market reports.

12.48 p.m.—"Sun" midday news service.

1 p.m.—Studio music.

1.30 p.m.—Talk to children and special entertainment for Children in Hospital.

2 p.m.—G.P.O. Clock and chimes.

Close down.

AFTERNOON SESSION.

2.15 p.m.—G.P.O. Clock and chimes.

From the Sydney Cricket Ground: Description of play in the International Cricket Match, England versus N.S.W.

3.15 p.m.—Close down.

3.45 p.m.—G.P.O. Clock and chimes.

Radio Eisteddfod: Semi-finalists in the Radio Eisteddfod will be heard, drawn from the various sections including vocal, instrumental and humorist items.

4.15 p.m.—Talk on "Wandering through Tropic Seas and Coral Isles," by Mr. Basil Kirke.

4.25 p.m.—Bennie Abrahams and his Romano's Restaurant Band broadcast from Romano's.

4.30 p.m.—Miss Doris Orr, soprano:

(a) "I love the Moon" (Rubens).

(b) "The Pipes of Pan are calling" (Mouck-ton).

4.37 p.m.—Bennie Abrahams and his Romano's Restaurant Band broadcast from Romano's.

4.45 p.m.—Miss Doris Orr:

(a) "The Garden where my soul was born" (Clarke).

(b) "Roses of Picardy" (Wood).

4.52 p.m.—Bennie Abrahams and his Romano's Restaurant Band broadcast from Romano's.

5 p.m.—From the Sydney Cricket Ground: Description of play in the International Cricket Match, England versus N.S.W.

EARLY EVENING SESSION.

6 p.m.—Children's letters and stories.

6.30 p.m.—"Sun" News and late sporting.

6.40 p.m.—2BL Dinner Quartette:

(a) "Aubade Florentine" (Mazza).

(b) "The Belle of New York" (Kerker).

(c) "Andalusian Serenade" (Eilenberg).

(d) "Dreams" (Wagner).

(e) "Valse Lyrique" (Sibelius).

(f) "Wonder Eyes" (Fletcher).

7.10 p.m.—Australian Mercantile Land and Finance Co.'s Report.

Weather report and forecast by courtesy of Govt. Meteorologist.

Producers Distributing Society's Fruit and Vegetable Market report.

Grain and Fodder report ("Sun.")

7.25 p.m.—Mr. Pim and Miss Pam in advertising talks and nonsense.

7.55 p.m.—Programme and other announcements.

EVENING SESSION.

8 p.m.—G.P.O. Clock and Chimes.

2BL Topical Chorus.

8.3 p.m.—Mr. Lance Jeffree, tenor:

(a) "Ring, Bells, Ring" (Day).

(b) "The Birth of Morn" (Leoni).

8.10 p.m.—Mr. Moore MacMahon, violinist.

8.17 p.m.—Miss Molly de Gunst, soprano:

(a) "Si mes vers avaient des ailes" (Hahn).

(b) "The Blue Danube" (Strauss).

8.24 p.m.—Talk on Cricket, by Mr. Hyam Marks.

8.39 p.m.—Miss Eleanor Stanton, contralto:

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

(b) "Les Separes" (Gastel).

8.46 p.m.—Mr. Charles Renton, comedian.

8.53 p.m.—The New South Wales Broadcasting Company's Orchestra, conducted by Mr. Willie Redstone.

9.8 p.m.—Weather report and forecast, by courtesy of Government Meteorologist.

9.9 p.m.—Mr. Lance Jeffree:

(a) "Eleanore" (Coleridge Taylor).

(b) "My Queen" (Blumenthal).

9.16 p.m.—Mr. Moore MacMahon.

9.23 p.m.—The New South Wales Broadcasting Company's Orchestra.

9.38 p.m.—Miss Molly de Gunst:

(a) "The Last Hour" (Kramer).

(b) "We Two" (Kramer).

9.45 p.m.—The New South Wales Broadcasting Company's Orchestra.

10 p.m.—Mr. Charles Renton.

10.7 p.m.—Miss Eleanor Stanton:

(a) "Rain-song" (Brahms).

(b) "On the Banks of Allan Water" (Folk Song).

10.14 p.m.—The New South Wales Broadcasting Company's Orchestra.

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

10.30 p.m.—National Anthem.

2GB, SYDNEY.

TUESDAY, 13th NOVEMBER, 1928.

Concert arranged by the Straube Piano Company.

2 UW, SYDNEY

TUESDAY, 13th NOVEMBER, 1928.

MIDDAY SESSION.

12.30 p.m.—To-day's anniversary.

12.32 p.m.—Music.

1 p.m.—Clock and chimes.

1.1 p.m.—Music.

2 p.m.—National Association Political address.

2.22 p.m.—"Cheerio Talk."

2.30 p.m.—Close down.

AFTERNOON SESSION.

4.30 p.m.—Music.

5.30 p.m.—Bedtime stories by "Uncle Jack."

6.30 p.m.—Close down.

EVENING SESSION.

7 p.m.—Clock and chimes.

7.1 p.m.—News items, etc.

7.10 p.m.—Talk by Mr. J. M. Prentice.

7.30 p.m.—Musical Interlude.

7.35 p.m.—Political address.

7.55 p.m.—Items of interest.

8 p.m.—Clock and chimes.

8.1 p.m.—Music.

9 p.m.—Clock and chimes.

9.1 p.m.—Comments on Foreign affairs by Mr. J. M. Prentice.

9.10 p.m.—Music and request numbers.

10 p.m.—Close down.

3LO, MELBOURNE

TUESDAY, 13th NOVEMBER, 1928.

EARLY MORNING SESSION.

7.15 a.m.—Morning Melodies.

7.20 a.m.—Morning Exercises to Music.

7.30 a.m.—Stock reports. Market reports.

General news. Shipping. Sporting information. Express train information.

8 a.m.—Melbourne Observatory Time Signal.

8.1 a.m.—Morning Melodies.

8.15 a.m.—Close down.

MORNING SESSION.

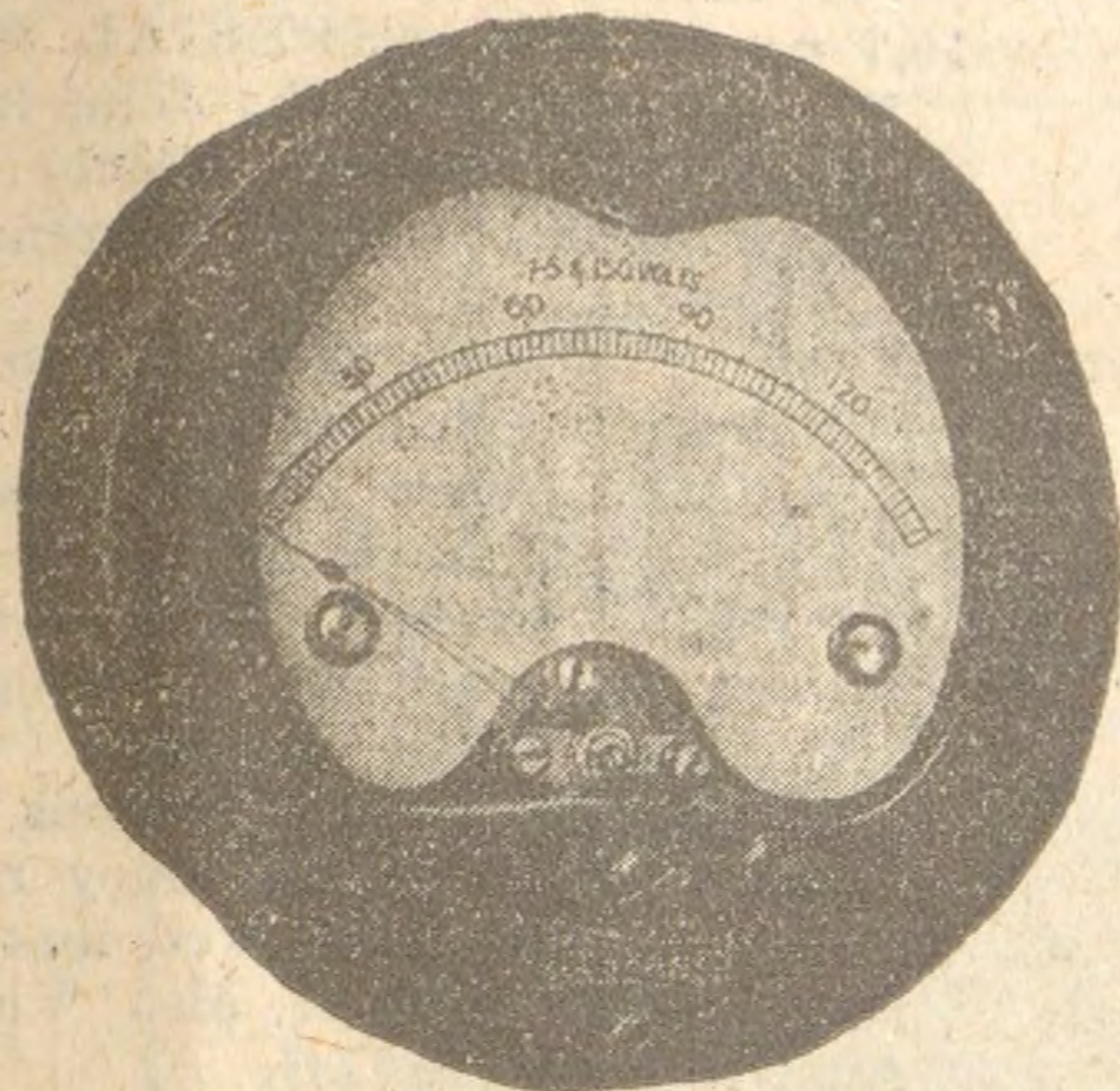
Announcer MAURICE DUDLEY.

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

RECIPE.

STUFFED TOMATOES.

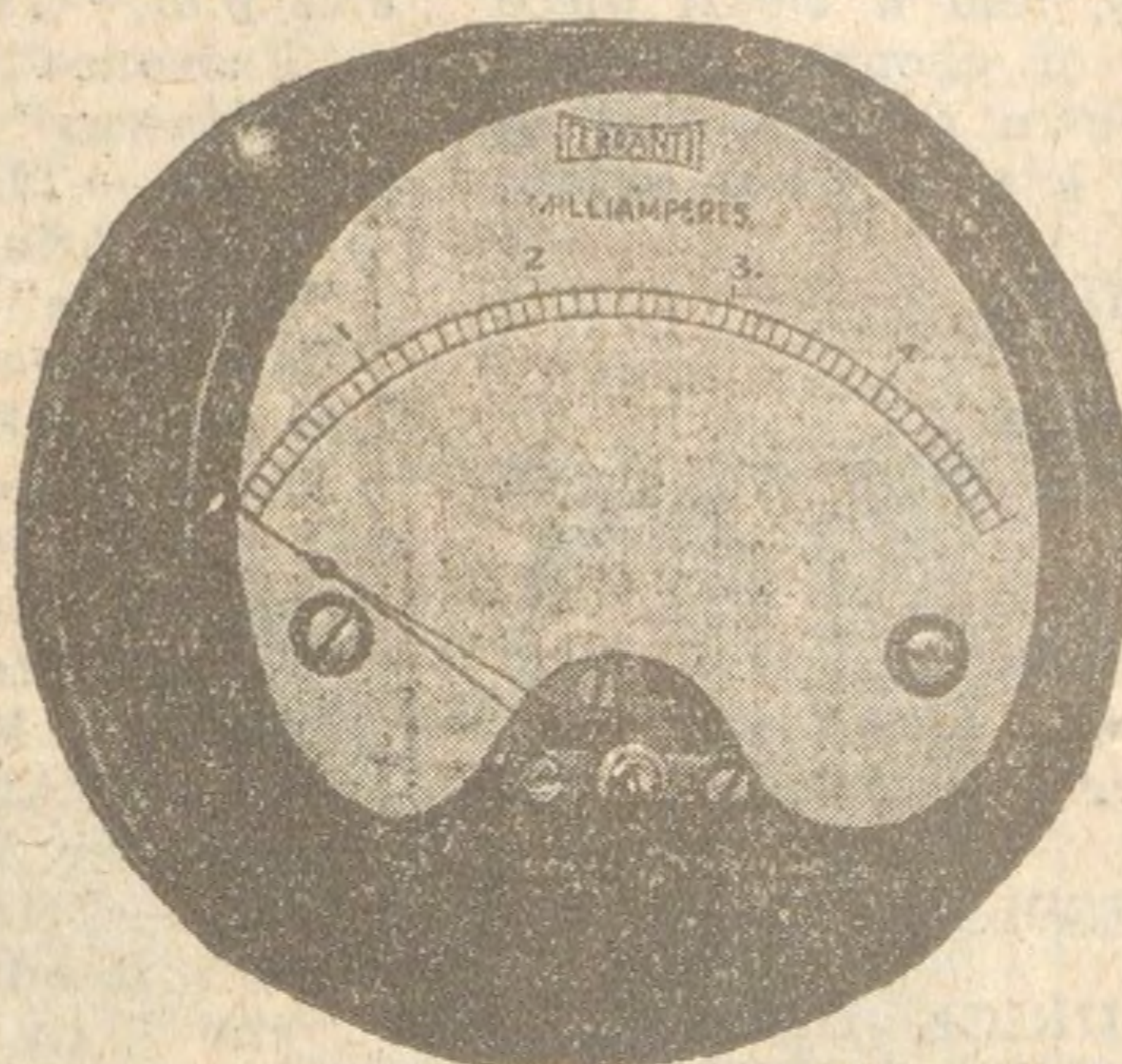
6 nice smooth round tomatoes, a little minced onion, a few breadcrumbs, pepper and salt, a little minced bacon or cold meat, a little butter, chopped parsley. Wash tomatoes, cut a slice off top. With a teaspoon



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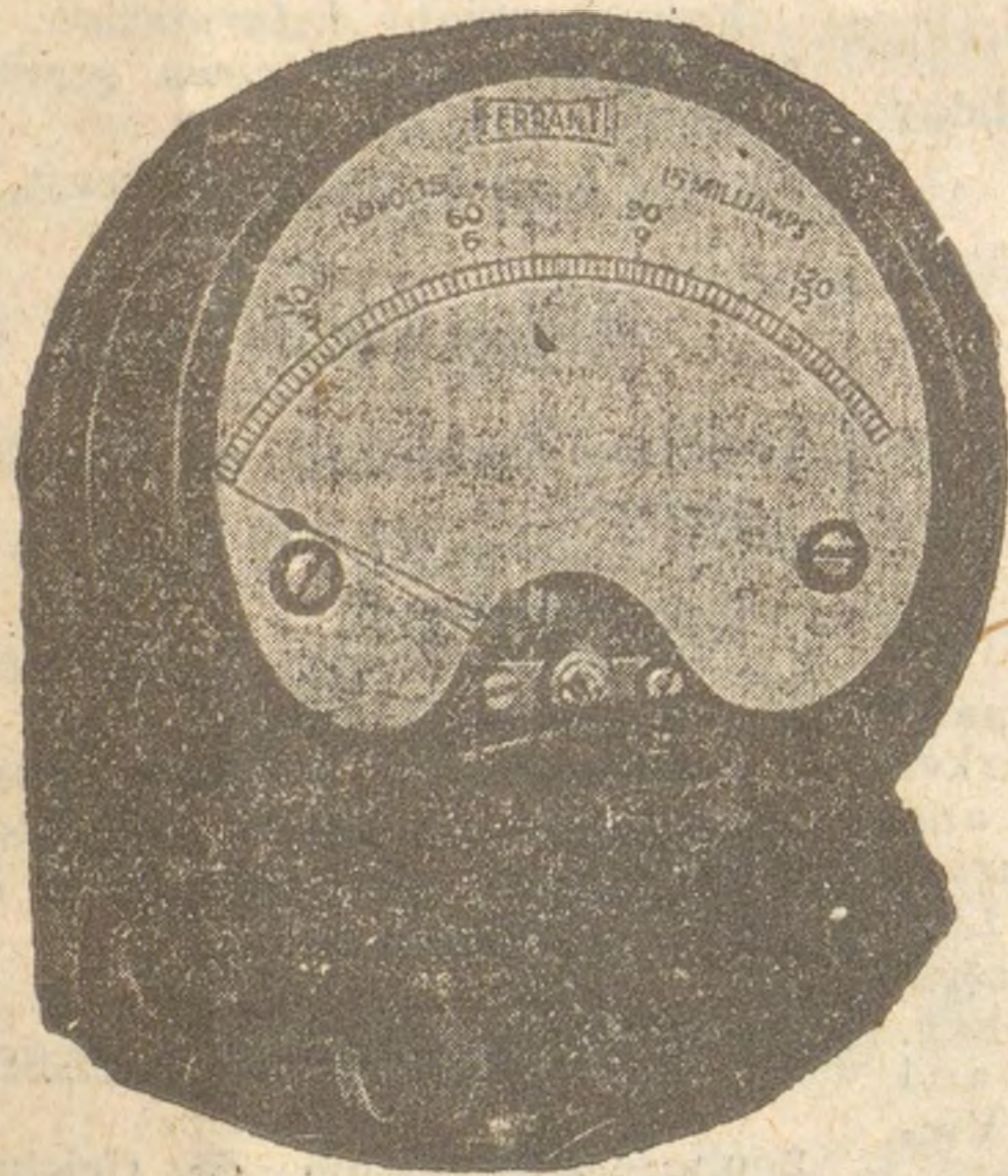
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- (1) Inherent mechanical strength of the arrangement.
- (2) Unique design of the magnetic circuit reduces the magnetic losses to a minimum.
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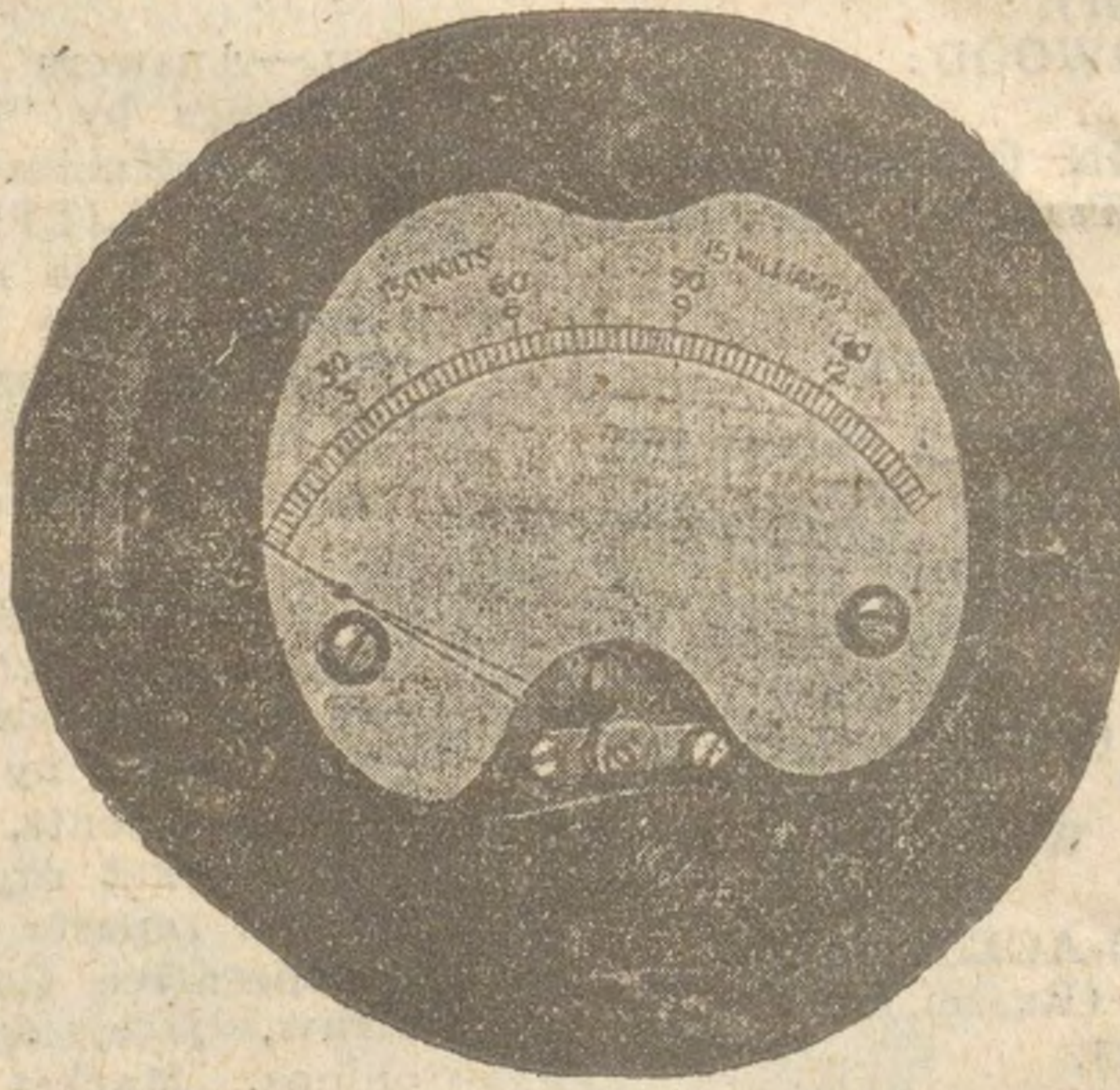
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carefully scoop out inside of tomato. Put it into small saucepan with the parsley, salt and pepper, minced onion and bacon (and minced meat if liked). Add 1 tablespoon breadcrumbs. Stir all over the fire till well blended, and onions are soft. Refill cases with mixture. Put a few breadcrumbs on top of each, and a small piece of butter and a touch of chopped parsley. Pop in hot oven to brown crumbs, and to cook the cases without letting them break. Serve hot.

11.5 a.m.—MISS E. NOBLE:

"Gas Cookery."

11.20 a.m.—Musical Interlude.

11.25 a.m.—MRS. DOROTHY SILK will speak on:

"Homecrafts."

11.40 a.m.—Musical Interlude.

11.45 p.m.—"DOMINA" will speak on:
"Journalism as a Career for Women."

MIDDAY SESSION

Announcer MAURICE DUDLEY.

Accompanist AGNES FORTUNE.

12 noon.—Melbourne Observatory Time Signal.
Express Train Information.

12.1 p.m.—Metal Prices received by the Australian Mines and Metals Association from the London Stock Exchange this day. British Official Wireless News from Rugby. Reuter's and the Australian Press Association Cables. "Argus" News Service.

12.15 p.m.—Newmarket Stock Sales. Special Report by John McNamara and Co.

12.20 p.m.—THE STATION ORCHESTRA:
Selection, "Der Freyschutz" (Weber).

12.30 p.m.—ELLA RIDDELL, contralto:
"Thy Beaming Eyes" (McDowell).

"Go, Lovely Rose" (McDowell).

12.37 p.m.—Stock Exchange Information.

12.40 p.m.—THE STATION ORCHESTRA:
Suite, "Woodland Sketches" (McDowell).

12.50 p.m.—FRANK HARWOOD (by permission Tivoli Theatres Ltd.):
Character Vocalist.

12.57 p.m.—GUILDFORD BISHOP, violin:

"To a Wild Rose" (McDowell).

1.4 p.m.—THE STATION ORCHESTRA:
Overture, "Euryanthe" (Weber).

1.11 p.m.—Meteorological Information. Weather Forecast for Victoria, New South Wales, Tasmania, South Australia. Ocean Forecasts. River Reports.

1.17 p.m.—ELLA RIDDELL, contralto:
"Slumber Song" (McDowell).

"The Swan Bent Low" (McDowell).

1.24 p.m.—REG. BROWN:
Piano, "Rondo" (Weber).

1.30 p.m.—FRANK HARWOOD:
Character Vocalist.

1.37 p.m.—THE STATION ORCHESTRA:
"Largo from Sonata Tragica" (McDowell).

1.45 p.m.—Close down.

AFTERNOON SESSION.

Announcer MAURICE DUDLEY.

Accompanist AGNES FORTUNE.

2.15 p.m.—THE RADI-O-ACES:
"Last Night I Dreamt You Kissed Me" (Kahn).

"That's My Mammy" (Donaldson).

"Honeymoon Cottage."

2.24 p.m.—ARCHIE and WATTIE:
Patter Specialists.

2.31 p.m.—THE RADI-O-ACES:
"I'm Wingin' Home" (Russell).

"Evening Star" (Turk).

"Russian Rag" (Stitzel).

2.40 p.m.—FRANK HARWOOD (by permission Tivoli Theatres Ltd.):
Character Vocalist.

2.47 p.m.—THE RADI-O-ACES:
"Lolita" (Stonham).

"Henry's Made a Lady out of Lizzie" (O'Keefe).

"We'll have a New Home in the Morning" (Buck).

2.56 p.m.—VICTOR BAXTER, tenor:
"Dreams of Long Ago" (Caruso).

"Mother of Mine."

3.3 p.m.—THE RADI-O-ACES:
"In a Bamboo Garden" (Donaldson).

"Anything You Say" (Donaldson).

"What Will You Do" (Muller).

3.12 p.m.—DAWN HARDING, Mezzo-Soprano:

"The Princess" (Heinrich).

"When Childer Plays" (Davies).

3.19 p.m.—THE RADI-O-ACES:

"My Melancholy Baby" (Noston).

"Ice Cream" (Jones).

"Don't Cry, Baby" (Kahn).

3.28 p.m.—GWEN HART, Soprano:

"Provence" (Carne).

"Mifawny" (Foster).

3.35 p.m.—THE RADI-O-ACES:

"Love Affairs" (Robinson).

"Sunshine" (Berlin).

"Jaz Master" (Mayeral).

3.44 p.m.—ARCHIE AND WATTIE:

Patter Specialists.

3.51 p.m.—THE RADI-O-ACES:

"In My Bouquet of Memories" (Lewis).

"Sentimental Baby" (Palmer).

"Rose of Monterey" (Guy).

4 p.m.—FRANK HARWOOD:

Character Vocalist.

4.7 p.m.—THE RADI-O-ACES:

"Red Head" (Embury).

"The Man I Love" (Gershwin).

"Was it a Dream" (Britt).

4.16 p.m.—VICTOR BAXTER, Tenor:

"Castilian Lament" (del Rigo).

"Star Vicino" (Gomez).

4.23 p.m.—THE RADI-O-ACES:

"Together" (Brown).

"Mary Ann" (Davis).

"Tell Me To-night" (Little).

4.32 p.m.—DAWN HARDING, Contralto:

"Impatience" (Schubert).

"When at Morn" (Schumann).

4.39 p.m.—THE RADI-O-ACES:

"Oh, Doris, Where do You Live" (Kahn).

"There's One Little Girl Who Loves Me" (Kahn).

"Polly" (Zameenik).

4.48 p.m.—GWEN HART, Soprano:

"April is a Lady."

"Daffodil Gold" (Hodgson).

4.55 p.m.—THE RADI-O-ACES:

"Felix the Cat" (Naustraum).

"Delirium" (Schutt).

NEWS SESSION.

5 p.m.—"Herald" news session.

Stock Exchange information.

5.10 p.m.—Close down.

During the afternoon progress scores of the Cricket Match, England v. New South Wales, will be given as they come to hand, also Victoria v. South Australia at M.C.G.

EVENING SESSION.

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

6.25 p.m.—Musical interlude.

6.30 p.m.—"LITTLE MISS KOOKABURRA" will tell some more favorites:

"Babes in the Wood."

"Robinson Crusoe."

NIGHT SESSION.

7.5 p.m.—Stock Exchange information.

7.15 p.m.—Special report of John McNamara and Co. Official report of the Newmarket Stock Sales by the Associated Stock and Station Agents, Bourke street, Melbourne.

Fish market reports by J. R. Borrett, Ltd.

Market reports by the Victorian Producers' Co-operative Co., Ltd. Poultry, grain, hay, straw, jute, dairy produce, potatoes and onions.

Market reports of fruit by the Victorian Fruiterers' Association. Retail prices

Wholesale prices of fruit by the Wholesale Fruit Merchants' Association. Citrus fruits.

7.30 p.m.—News Session. Stumps scores of England v. N.S.W., at Sydney, also Victoria v. South Australia at M.C.G.

7.30 p.m.—News Session.

7.43 p.m.—Birthday Greetings.

7.45 p.m.—OUT OF THE PAST.

7.46 p.m.—Under the auspices of the University Extension Board, HON. S. MAUGER will speak on "Past Events and Present Day Problems."

8 p.m.—Announcements.

8.10 p.m.—Hon. J. H. SCULLIN, M.H.R., Leader of the Federal Labor Party, will speak from the Prahran Town Hall.

9.30 p.m.—COBURG CITY BAND:

March, "Imperial Echoes" (Saffroni).

"Gethsemane Commandery" (Fulton).

9.40 p.m.—MONA NUGENT, Soprano:

"Nina" (Pergoleese).

"Le Serenata" (Tosti).

9.47 p.m.—THE RADIO MERRYMAKERS:

"A Little Surprise."

10.7 p.m.—THE IMPERIAL RUSSIAN TRIO

(Arved Norit, violin; John Berzinsky, 'cello; and William Ibster, piano):

Arved Norit, violin—"Serenade Columbine" (Pierre).

William Ibster, piano—"Young Girls in the Garden" (Monpou).

The Trio—"Trio in F Sharp Major" (Frank), Andant con moto.

10.22 p.m.—"Argus" News Service. Meteorological information. British Official Wireless news from London. Announcements.

Sporting notes by "Olympus." Eric Welch's selections for the Sunbury races to-morrow.

Results of the Cricket match, England v. New South Wales, also Victoria v. South Australia at M.C.G.

10.32 p.m.—COBURG CITY BAND:

Waltz Militaire, "The Grenadiers" (Rimmer)

10.42 p.m.—MONA NUGENT, Soprano:
"O Flower Divine" (Haydn Wood).

"Poor Butterfly."

10.49 p.m.—COBURG CITY BAND:

Fantasia, "The Village Gala" (Fraser).

10.57 p.m.—OUR GREAT THOUGHT for to-day is—

"A friend that you have to buy won't be worth what you pay for him, no matter what that may be."—Prentice.

10.58 p.m.—THE RADI-O-ACES.

11.40 p.m.—GOD SAVE THE KING.



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

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

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NIGHT SESSION.

- 8 p.m.—Madame S. E. Soward:
"French Without Tears."
8.15 p.m.—A. W. Jackson: "Golf."
8.30 p.m.—Station Orchestra:
Selection: "Turandot" (Puccini).
Serenatta" (Reiser).
8.45 p.m.—James Scott, baritone:
"The Bell Ringer" (Wallace).
"Happy Man" (Dunhill).
8.52 p.m.—Station Orchestra:
"Prelude" (Jarnfeldt).
"Elegie" from D Minor Trio (Arensky).
9 p.m.—Madame Ella Kingston, soprano:
"The Almond Tree" (Schumann).
"Thou'rt Like a Lovely Flower" (Schumann).
"Evening Song" (Schumann).
9.10 p.m.—Tasma Tiernan, 'cello:
"Movement Grieg Sonata."
9.18 p.m.—Madame Ella Kingston, soprano:
"Rondel" (Edward Elgar).
"The Poet's Life" (Elgar).
"A Song of Autumn" (Elgar).
9.28 p.m.—Professor Berry:
"Boston—City of Culture."
9.43 p.m.—Station Orchestra:
Suite: "Imaginary Ballet" (Coleridge Taylor).
9.55 p.m.—James Scott, baritone:
"Just a Cottage Small" (Hanly).
"Inter Nos" (MacFadyen).
10.2 p.m.—J. Harcourt-Bailey, entertainer:
Cockney Character Sketch: "The Taxi Driver's Story" (W. Hastings).
Dramatic Monologue: "The Dream Ring of the Desert" (M. Hayes).
10.12 p.m.—Station Orchestra:
Overture: "Euranthe" (Weber).
"Liebeslied" (Kreisler).
10.27 p.m.—J. Harcourt-Bailey, entertainer:
A Toast: "The Ladies" (G. Squire).
Chinese Story: "The Pigtail of Li Fang Fu" (Sax Rohmer).
10.37 p.m.—Station Orchestra:
"Selection of Songs" (Schubert).
10.52 p.m.—"Age" news service, exclusive to 3AR.
10.58 p.m.—Weather forecast.
10.59 p.m.—Our Australian Good-night quote.
11 p.m.—God Save the King.

4QG, BRISBANE.

TUESDAY, 13th NOVEMBER, 1928.

EARLY MORNING SESSION.

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

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

MIDDAY SESSION.

- 1.0 p.m.—Market Reports and Weather Information.
1.15 p.m.—Lunch-Hour Music.
1.58 p.m.—Time Signals.
2.0 p.m.—Close Down.

AFTERNOON SESSION.

- 2.0 p.m.—A Programme of Electrically Reproduced Records.
3.30 p.m.—Mail Train Running Times.
4.15 p.m.—This Afternoon's News.
4.30 p.m.—Close Down.

EARLY EVENING SESSION.

- 6.0 p.m.—Mail Train Running Times; Mail Information; Shipping News.
6.5 p.m.—Dinner Music.
6.25 p.m.—Commercial Announcements.
6.30 p.m.—Bedtime Stories, conducted by "Uncle Ben."
7.0 p.m.—News in Brief.
7.5 p.m.—Stock Exchange News.

- 7.6 p.m.—Metal Quotations.
7.7 p.m.—Market Reports.
7.25 p.m.—Fenwick's Stock Report.
7.30 p.m.—Weather Information.
7.40 p.m.—Announcements.
7.43 p.m.—Standard Time Signals.
7.45 p.m.—Lecturette: A Talk on "Photography," by Mr. F. L. South (Manager Kodak Ltd.).

NIGHT SESSION.

- A Programme arranged by Mr. Arthur Sharman.
8.0 p.m.—From the Studio:
Gladys Frost and Arthur Sharman (pianist):
Two Pianos, "Sicilienne" (Bach).
"Valse C Major" (Arensky).
Ivy Plane (Soprano):
"A Fancy" (German).
"Heigh Ho" (German).
Morris Cran (Violinist):
"Souvenir" (Drdla).
Ruby Massey (elocutionist):
Australian Verse, "Taking His Chance" (Lawson).
Gladys Frost and Arthur Sharman (pianists)
Two Pianos:
"Divertimento Fugue" (Mason).
"Prelude" (Richard Platt).
"The Jester" (Carl Beecher).
Ivy Plane (Soprano):
"The Prayer" (from "La Tosca"—Puccini).
Morris Cran (violinist):
"Benedictus" (McKenzie).
Ruby Massey (elocutionist):
Child Study:
"My Mummie" (Anon.).
"Supplanted" (Anon.).
Gladys Frost and Arthur Sharman (pianists)
Two Pianos: "Fete" (Debussy).
9.0 p.m.—Metropolitan Weather Forecast.
Ivy Plane (Soprano):
"Waters of Minnetonka" (Lawrence), with violin obligato by Morris Cran.
Ruby Massey (elocutionist):
"Smile" (Hayes).
Gladys Frost and Arthur Sharman (pianists)
Two Pianos:
"Romance" (Arensky).
"Habanera de Cigra" (Howe).
"Spanish Folk Dance" (Howe).
Ivy Plane (Soprano):
"Ave Maria" (Percy Kahn), with violin obligato by Morris Cran.
"Obstination" (Fontenaiells).
"Au Printemps" (Gounod).
Ruby Massey (elocutionist):
Humorous, "McGinty" (Anon.).
"Tit for Tat" (Anon.).
Gladys Frost and Arthur Sharman (pianists)
Two Pianos: "Romance With Variations" (Grieg).
10.0 p.m.—Late News; Weather News.
10.10 p.m.—"Queenslander" News Service for Distant Listeners.
10.30 p.m.—Close Down.

6WF, PERTH.

TUESDAY, 13th NOVEMBER, 1928.

MIDDAY SESSION.

- 12.30 p.m.—Tune in.
12.35 p.m.—Markets, news and cables.
1 p.m.—Time signal.
1.1 p.m.—Weather notes supplied by the Meteorological Bureau of Western Australia.
Station announcements.
1.2 p.m.—Studio Instrumental Trio, conducted by Mr. Val Smith.
Danse, "Danse La Ballerina" (Elliot).
Selection, "Northern Impressions, No. 3" (Grieg).
1.30 p.m.—Close down.

AFTERNOON SESSION.

- 3.30 p.m.—Tune in.
3.35 p.m.—Pianoforte selections by Miss Audrey Dean.
Vocal and instrumental numbers from the studio.
4.30 p.m.—Close down.

EVENING SESSION.

- 6.45 p.m.—Tune in.
The evening transmission is broadcast on 104.5 metres as well as the usual wavelength.
6.48 p.m.—Stories for the Kiddies and Birthday Greetings, by Uncle Percy.
7.5 p.m.—Items by the studio Trio.
7.30 p.m.—Stocks, Markets, news.
7.45 p.m.—Talk by Dr. J. S. Battye, B.A., LL.B.
8 p.m.—Time signal.
8.1 p.m.—Weather notes supplied by the Meteorological Bureau of Western Australia.
Station announcements such as alterations to programmes, etc.
8.3 p.m.—Concert Night.
Musical programme from the studio, including vocal and instrumental artists.
9 p.m.—Late news items by courtesy of "The Daily News" newspaper Co.
Ships within range announcement.
Weather report and forecast.
Station announcements.
10.30 p.m.—Close down.

104.5 METRE TRANSMISSION.

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

7ZL, HOBART

TUESDAY, 13th NOVEMBER, 1928.

MIDDAY SESSION.

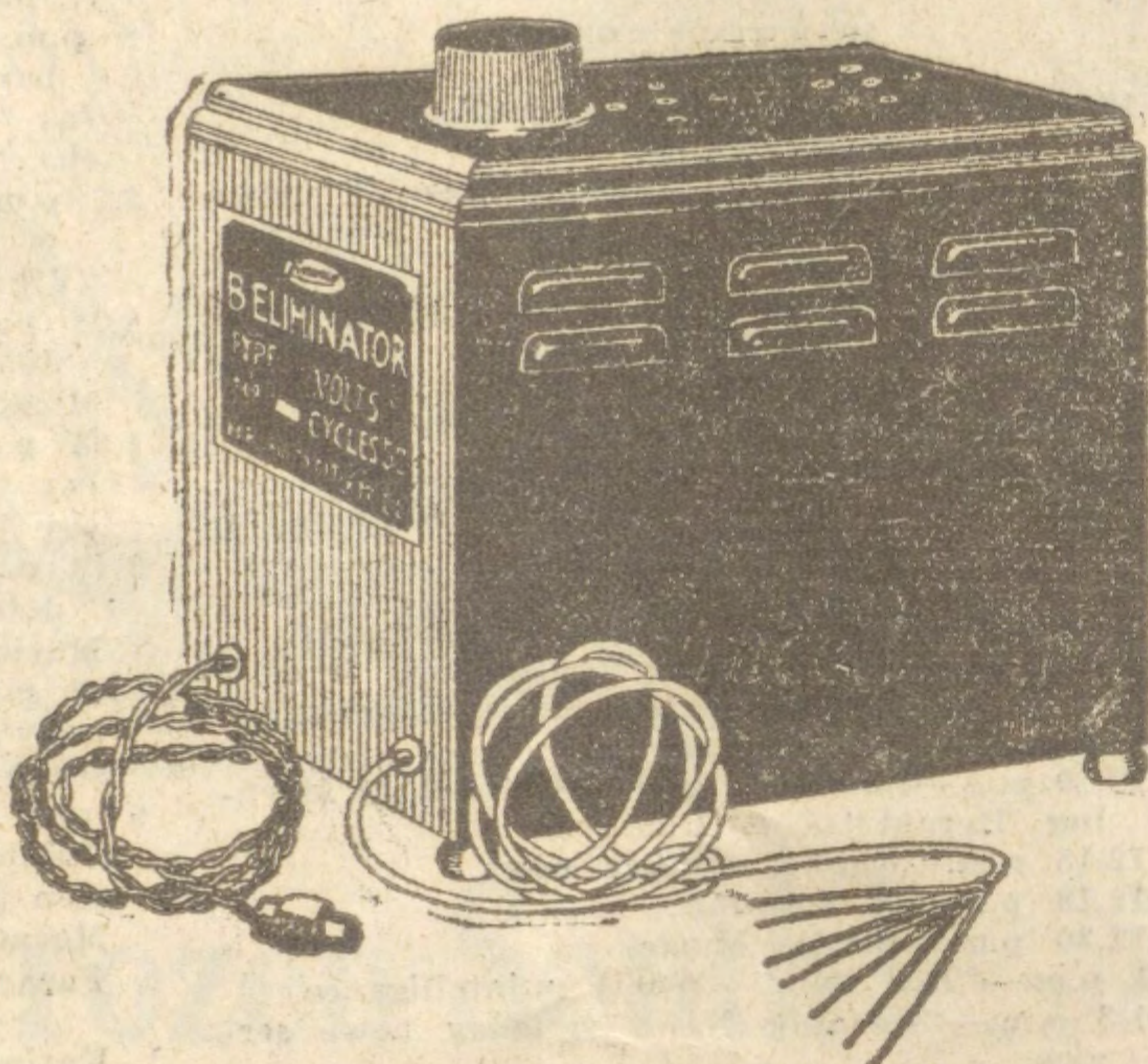
- 11.30 a.m.—Monsieur Sonora:
Musical selections.
11.34 a.m.—Special Midlands weather forecast.
11.35 a.m.—Monsieur Sonora:
Musical selections.
11.55 a.m.—Tasmanian Station's 9 a.m. weather reports.
12 noon.—G.P.O. Clock chimes the hour.
12.1 p.m.—Shipping information.
Ships within wireless range.
Mail notices.
Housewives' Guide.
12.8 p.m.—Monsieur Sonora:
Musical selections.
12.11 p.m.—British official wireless news.
12.20 p.m.—Monsieur Sonora:
Musical selections.
12.29 p.m.—Announcements.
12.33 p.m.—Monsieur Sonora:
Musical selections.
12.55 p.m.—"Mercury" news service.
Produce Sales, held at Railway.
1.10 p.m.—Monsieur Sonora:
Musical selections.
1.30 p.m.—Close down.

AFTERNOON SESSION.

- A Pianola Programme of Dance Music, interspersed with vocal items, by the Discus Ensemble.
3 p.m.—G.P.O. Clock chimes the hour.
3.1 p.m.—Weather information.
Patti Pianola, fox trot:
"I've Got the Girl" (Walter).
Alfred O'Shea, tenor:
"Little Town in Old County Down" (Pascoe).
Patti Pianola, waltz:
"Spanish Moon" (Terese).
Alfred O'Shea, tenor:
"Macushla" (Rowe).
Patti Pianola, fox trot:
"Breeze" (Reber).
Sir Harry Lauder:
"I Like My Old Home Town" (Lauder).
Patti Pianola, fox trot:
"The Varsity Drag."
Sir Harry Lauder:
"The Boss."
Patti Pianola, fox trot:
"That's My Mammy."
Discus Ensemble, guitar duets:
"Ghost Dance" (Meinken).
"Wasbash Blues."
Patti Pianola, fox trot:
"She's a Corn Fed Indiana Girl."

Power! Constant- Silent- never failing

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PRODUCTS
ARE FULLY
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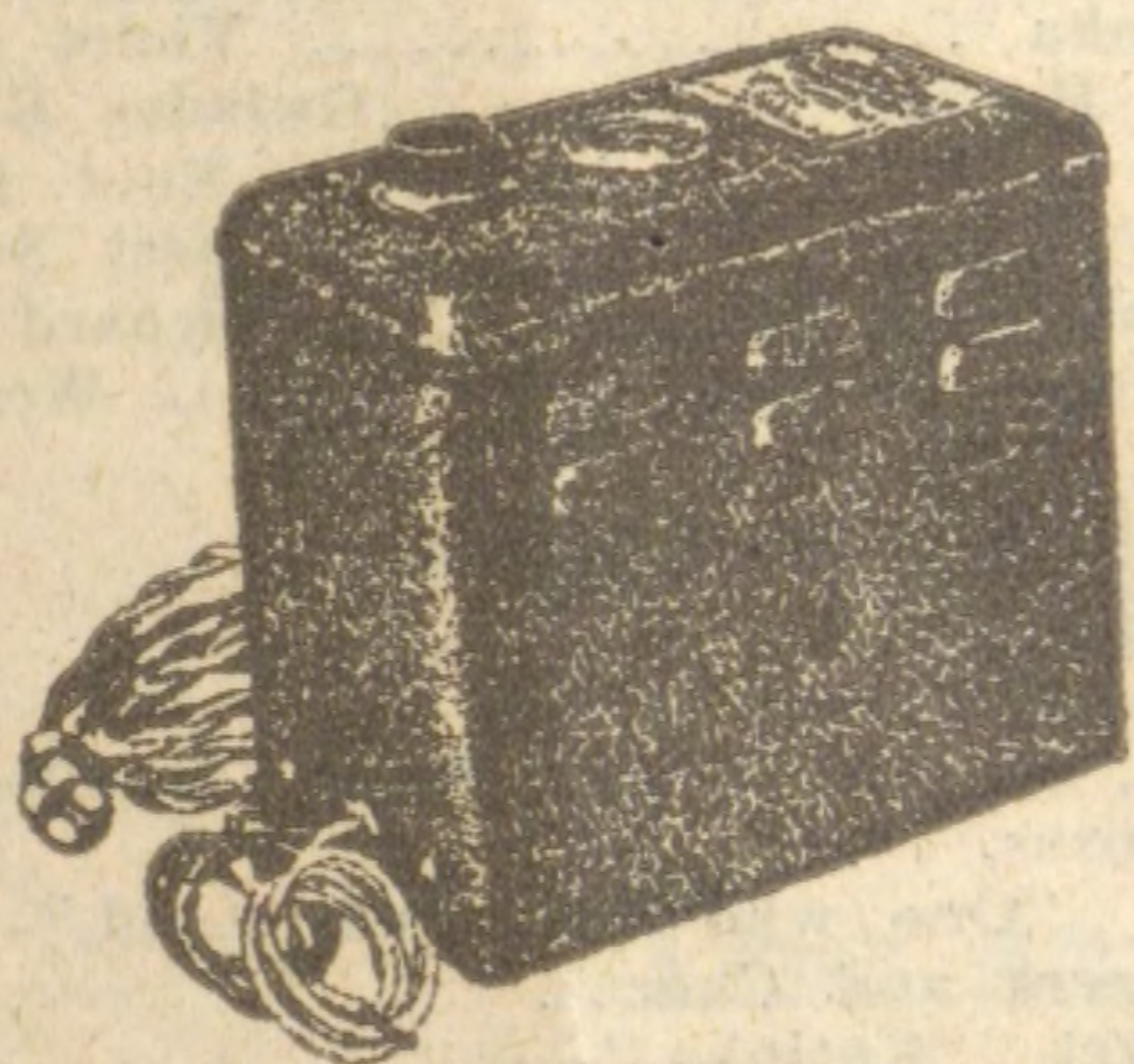
The Maxum "B" Socket Power is designed to operate sets up to and including seven valves.

A variation of 20 Volts for all tappings is obtainable by a knob control on top of the case, whilst voltages can be changed to different values by altering connection to resistance strip inside.

A cable provides for seven fixed voltages, with leads marked for B—, Det. Radio, Ground, Audio, intermediate audio, and B positive max. This improved "B" Eliminator is unexcelled by any imported make.

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Socket Power 'A' Supply

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It is no longer necessary to depend on batteries of any kind for wireless reception; by the simple installation of an "A" Socket Power Supply, to take the place of your accumulator, and any type of Emmco "B" Eliminator, your old set becomes a batteryless receiver, without any alteration or change in the wiring. Any style of valve may be used.

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Sydney Place off Little Collins St
MELBOURNE

4.15 p.m.—Educational Talk.

4.30 p.m.—Close down.

During the afternoon, progress scores will be given of the English XI. v. New South Wales, at Sydney.

EARLY EVENING SESSION.

Children's Hour.

6.15 p.m.—Nursery rhyme time, by the Discus Ensemble.

6.45 p.m.—The Story Lady:
A story for the children—"Roland."

7 p.m.—Answers to letters and birthday greetings, by "Uncle David."

7.5 p.m.—Monsieur Sonora:

Musical selection.

7.15 p.m.—"Mercury" special Tasmanian news service:

Railway auctions. Produce sales.

Weather information.

Hobart Stock Exchange quotations.

EVENING SESSION.

7.30 p.m.—Under the auspices of the Agricultural and Stock Department of Tasmania. T. Philp will speak on:

"The Eradication of Liver Fluke in Sheep."

7.45 p.m.—W. E. Fuller will speak on:

"Literary Lapses and Library Lists."

8 p.m.—G.P.O. Clock chimes the hour.

8.1 p.m.—Acknowledgment of 7ZL and "Mercury" appeal for wireless equipment for Hobart General Hospital.

Senior birthday greetings.

Dance Programme, by the Pavilion Dance Band (conductor, Vernon Byrne) and the Discus Ensemble.

8.6 p.m.—Pavilion Dance Band:

Foxtrot, "After My Laughter, Came Tears" (Tobias).

Foxtrot, "Oh, Doris, Where Do You Live" (Kahn).

The Discus Ensemble:

Paul Whiteman's Orchestra: "Chiquita" (Gilbert).

Pavilion Dance Band:

"Together" (de Sylva).

The Discus Ensemble:

Paul Whiteman's Orchestra: "Blue Nights" (arr. Robins).

Pavilion Dance Band:

Foxtrot, "Beautiful" (Shay).

Blues: "The Man I Love" (Gershwin).

The Discus Ensemble:

Hawaiian guitars waltz, "One, Two, Three, Four-Medley Waltz."

The Pavilion Dance Band:

Foxtrot, "Ice Cream" (Johnson).

Foxtrot, "My Melancholy Baby" (Norton).

"Ramona" (Wayne).

9 p.m.—From the Frozen South. Re-broadcast of concert, and talk on the flight of Sir George Wilkins; transmission on short wave from S.S.N.T. Nielson Alonso, the whaler stationed amongst the ice packs in the Ross Sea, near the South Pole.

9.15 p.m.—From the Studio—Dance programme continued.

Pavilion Dance Band:

Blues: "Shine On, Harvest Moon" (Bayes).

Fox trot, "Barbara" (Silver).

Fox trot, "Mountain Greenery" (Rodgers).

The Discus Ensemble:

Paul Whiteman's Orchestra: "What's My Weakness Now" (Green).

Pavilion Dance Band:

Blues, "Rain" (Ford).

Fox trot, "There's One Little Girl who Loves Me" (Kahn).

Waltz, "Can't You Hear Me Say I Love You" (Brown).

The Discus Ensemble:

Paul Whiteman's Orchestra: "Felix the Cat" (Wendling).

Pavilion Dance Band:

Fox trot, "Side by Side" (Woods).

NEWS SESSION.

9.50 p.m.—British official wireless news.

"Mercury" special Tasmanian news service.

Tasmanian district weather report.

10 p.m.—G.P.O. Clock strikes the hour.

God Save the King. Close down.

Wednesday, November 14

New South Wales Broadcasting Company, Limited.

2FC, SERVICE.

EARLY MORNING SESSION.

7 a.m.—"Big Ben" and announcements.

7.5 a.m.—Studio Music.

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

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

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

7.45 a.m.—"Sydney Morning Herald" news service.

7.50 a.m.—Studio Music.

8 a.m.—"Big Ben." Close down.

MORNING SESSION.

10 a.m.—"Big Ben" and announcements.

10.2 a.m.—Studio Music.

10.10 a.m.—"Sydney Morning Herald" news service.

10.25 a.m.—Studio Music.

10.45 a.m.—A Talk on Home Cooking and Recipes by Miss Ruth Furst.

11 a.m.—"Big Ben."

A.P.A. and Reuter's Cable Services.

11.5 a.m.—Close down.

MIDDAY SESSION.

12 noon—"Big Ben" and announcements.

12.1 p.m.—Stock Exchange, first call.

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

12.5 p.m.—Musical items.

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

12.15 p.m.—Rugby wireless news.

12.18 p.m.—A Reading.

12.30 p.m.—Studio Music.

1 p.m.—"Big Ben." Weather intelligence.

1.3 p.m.—"Evening News" midday news service.

Producers' Distributing Society's Report.

1.20 p.m.—Studio Music.

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

1.30 p.m.—Studio Music.

2 p.m.—"Big Ben." Close down.

AFTERNOON SESSION.

2.30 p.m.—Programme announcements.

Note.—Race results from Rosebery will be transmitted as received.

2.32 p.m.—Educational Session for the Schools: Subject, "Let's Go Round the World," interspersed with suitable music.

3 p.m.—"Big Ben." Pianoforte reproduction.

3.15 p.m.—Radio Eisteddfod:

Semi-finalists in the Radio Eisteddfod will be heard, drawn from the various sections, including Vocal, Instrumental and Humorous Items.

3.45 p.m.—"Teacups Chatter," by Doreen Walsh.

4 p.m.—"Big Ben."

Ben Davies, baritone:

(a) "Vale" (Russell).

(b) "Shipmates o' Mine" (Sanderson).

4.8 p.m.—Gwladys Evans, soprano.

4.15 p.m.—Studio Music.

4.20 p.m.—Gwen Gilladrd, soprano:

(a) "Tiptoe" (Molly Carew).

(b) "The Cuckoo" (Liza Lehmann).

4.25 p.m.—"Scouting and the Scout Spirit"—a talk by Mr. Boscombe, Scoutmaster, from Adelaide Headquarters.

4.40 p.m.—Gwladys Evans, soprano.

4.45 p.m.—Stock Exchange, third call.

4.47 p.m.—Ben Davies, baritone:

(a) "Night of Stars and Splendour" (Thompson).

(b) Selected.

4.55 p.m.—Studio Music.

5 p.m.—"Big Ben." Close down.

EARLY EVENING SESSION.

5.40 p.m.—The chimes of 2FC.

5.45 p.m.—The "Hello Man" talks to the Children, assisted by Uncle Ted and "Sandy."

Letters and stories.

Music and entertainment.

6.30 p.m.—Dalgety's market reports (wool, wheat and stock).

6.40 p.m.—Fruit and vegetable markets.

6.43 p.m.—Stock Exchange information.

6.45 p.m.—Weather and shipping news.

6.48 p.m.—Rugby wireless news.

6.50 p.m.—Late sporting news.

7 p.m.—"Big Ben." Late news service.

7.10 p.m.—The 2FC Dinner Quartet, conducted by Horace Keats:

"Rouge et Noir" (Lotter).

"Just like a Melody" (Donaldson).

"Summer Days" (Coates).

"Pale Moon" (Logan).

"Serenade" (Heykins).

"Penelope's Garden" (Ancliffe).

NIGHT SESSION.

7.40 p.m.—Programme announcements.

7.47 p.m.—Studio music.

8 p.m.—"Big Ben." Leonard Patrickson, baritone:

(a) "The Linden Tree" (Schubert).

(b) "Impatience" (Schubert).

8.7 p.m.—Dr. Henry will continue his series of talks:

"Vignettes of the Pacific Islands."

8.23 p.m.—Hilda Sutton (violin) and Leila Job (piano):

Musical Act.

8.33 p.m.—Leonard Patrickson, baritone:

(a) "Peace" (Schubert).

(b) "The Organ Man" (Schubert).

8.40 p.m.—Hilda Sutton (violin) and Leila Job (piano):

Musical Act.

8.50 p.m.—The N.S.W. Broadcasting Company's Orchestra, conducted by Willie Redstone.

9 p.m.—"Big Ben." Late weather forecast. Studio production of "Katinka" (by permission of J. C. Williamson, Ltd.), by The Mosman Musical Society, conducted by Leo Packer.

Cast:

Katinka Violet Rogers

Mrs. Hoppen Gwladys Rawling

Olga Enid Dunlop

Ivan Rupert Swallow

Boris Richard Parry

Thaddens T. Hoppen .. Jack L. Westwood

Musical Numbers:

Overture.

Opening Chorus.

Song, "Vienna Girls," Rupert Swallow and Chorus.

Song, "One who will Understand," Violet Rogers and Chorus.

Quartet, "Katinka."

Song, "In a Hurry," Jack L. Westwood and Chorus.

Song, "Rackety Coo" Violet Rogers

Finale—Act 1,

Opening Act 2.

Song, "Allah's Holiday Enid Dunlop

Song, "Your Photo," Gwladys Rawling and Chorus.

Duet, "Weekly Weddings," Gwladys Rawling and J. L. Westwood.

Duet, "Tis the End," Violet Rogers and Rupert Swallow.

Opening Act 3.

Song, "My Paradise" .. Rupert Swallow

Song, "A Male Quartet," Gwladys Rawling and Male Quartet.

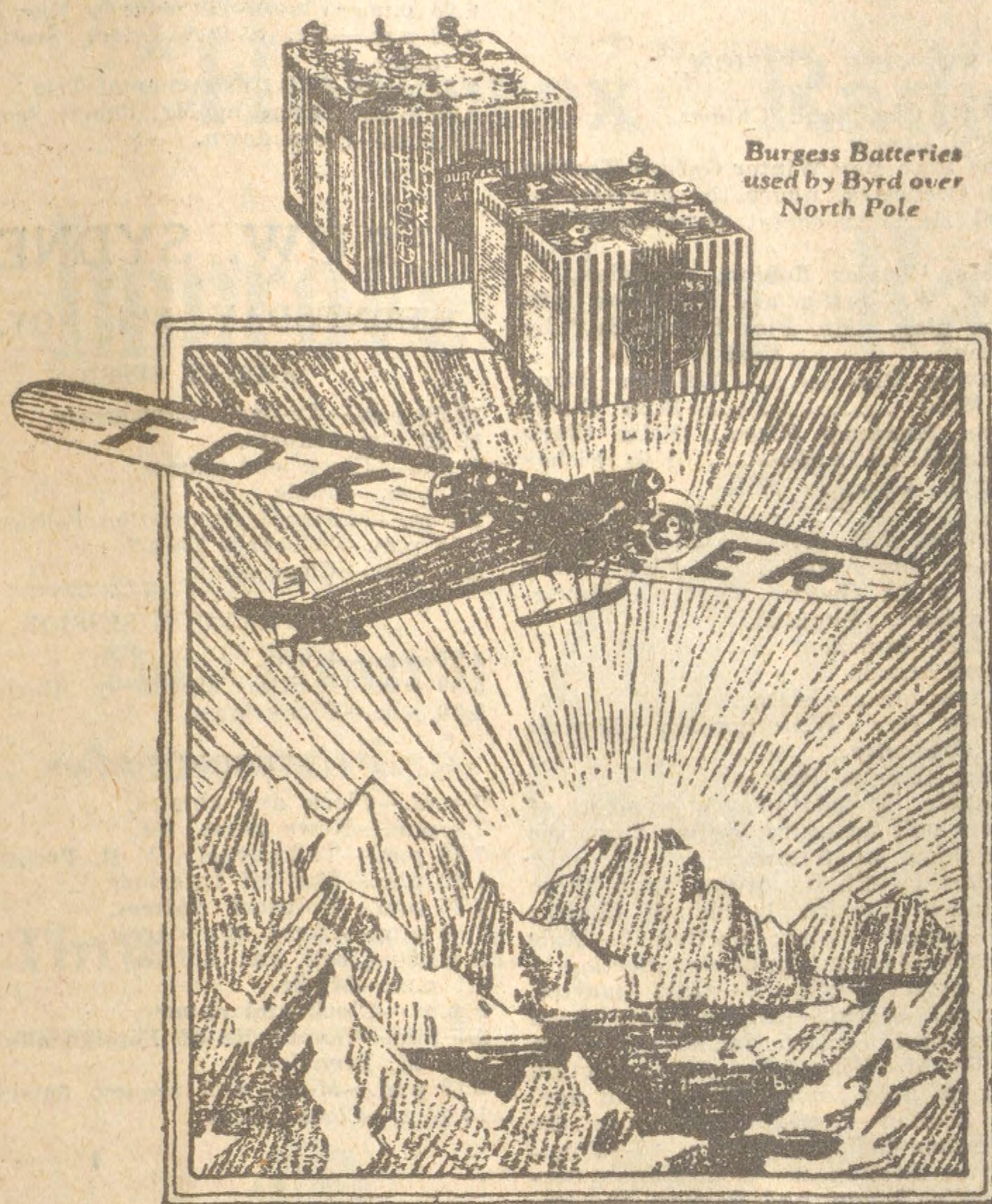
Finale.

10.15 p.m.—The N.S.W. Broadcasting Company's Orchestra, conducted by Willie Redstone.

10.27 p.m.—To-morrow's programme and announcements.

10.30 p.m.—National Anthem.

Close down.



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B-K

2BL, SERVICE.

WEDNESDAY, 14th NOV., 1928.

MORNING SESSION.

- 8 a.m.—G.P.O. Clock and chimes.
Metropolitan Weather report.
8.1 a.m.—State Weather report.
8.2 a.m.—Studio music.
8.15 a.m.—G.P.O. Clock and chimes.
News from the "Daily Telegraph Pictorial."
8.25 a.m.—Studio music.
8.30 a.m.—G.P.O. Clock and chimes.
Studio music.
8.35 a.m.—Information, Mails, Shipping, arrivals, departures, and sailings.
8.38 a.m.—News from the "Daily Telegraph Pictorial."
8.45 a.m.—G.P.O. Clock and chimes.
Studio music.
9 a.m.—G.P.O. Clock and chimes.
Studio music.
9.30 a.m.—G.P.O. Clock and chimes.
Ten minutes with silent friends.
9.40 a.m.—Studio music.
10 a.m.—G.P.O. Clock and chimes.
Close down.

MIDDAY SESSION.

- 11 a.m.—G.P.O. Clock and chimes.
Women's Session.
Sporting talk by Miss Gwen Varley, Women's Sports Authority.
11.15 a.m.—Talk on Electricity in the Home.
11.30 a.m.—Miss Pam—Recipes and other items of interest.
12 noon.—G.P.O. Clock and chimes.
Special Ocean forecast and weather report.
12.3 p.m.—Musical Programme from the studio.
12.30 p.m.—Shipping and Mails.
12.35 p.m.—Market reports.
12.48 p.m.—"Sun" Midday news service.
1 p.m.—Musical programme from the studio.
1.30 p.m.—Talk to Children and Special Entertainment for Children in the Hospital.
2 p.m.—G.P.O. Clock and chimes.
Close down.

AFTERNOON SESSION.

- 3.45 p.m.—G.P.O. Clock and chimes.
Note: During the afternoon race results from Rosebery Ponies will be given as received by courtesy of the "Sun" Newspapers.
Musical programme from the studio.
4 p.m.—Bennie Abrahams and his Romano's Restaurant Band broadcast from Romano's.
4.10 p.m.—"Sun" news service.
4.20 p.m.—Miss Mab Bowyer, contralto:
"The Lotus Flower" (Schumann).
4.22 p.m.—Bennie Abrahams and his Romano's Restaurant Band broadcast from Romano's.
4.30 p.m.—Mr. Charles O'Mara, Irish entertainer:
"In vain tho' banished from thy heart" (Mellon).
4.37 p.m.—Bennie Abrahams and his Romano's Restaurant Band broadcast from Romano's.
4.45 p.m.—Miss Mab Bowyer:
"Night and the curtains drawn" (Terrata).
4.47 p.m.—Mr. Charles O'Mara:
"The Rocky Road to Dublin" (Lamb).
4.54 p.m.—Bennie Abrahams and his Romano's Restaurant Band broadcast from Romano's.
5.5 p.m.—"Sun" News service.
5.15 p.m.—Mr. Josef Kaartinen, saxophonist:
(a) "Velma" (Wiedoeft).
(b) "Trumbology" (Trumbauer).
5.22 p.m.—Musical programme.
5.26 p.m.—Mr. Josef Kaartinen:
(a) "Vals Yvonne" (Wiedoeft).
(b) Fox trot, "Saxarella" (Wiedoeft).
5.33 p.m.—Features of evening's programme.
5.34 p.m.—Racing resume.

EARLY EVENING SESSION.

- 5.40 p.m.—Children's music and entertainment.
6.30 p.m.—Children's letters and stories.
6.40 p.m.—Gulbransen Dinner Music.
7.10 p.m.—Australian Mercantile Land and Finance Co.'s report.
Weather report and forecast by courtesy of Govt. Meteorologist.
Producers Distributing Society's Fruit and Vegetable Market report.
Grain and fodder report ("Sun.")
Diary Produce report ("Sun.")

- 7.25 p.m.—Mr. Pim and Miss Pam in advertising talks and nonsense.
7.55 p.m.—Programme and other announcements.

EVENING SESSION.

- 8 p.m.—G.P.O. Clock and Chimes.
2BL Topical Chorus
8.3 p.m.—The Rose Bay Winter Garden Theatre Symphony Orchestra, under the direction of Mr. Lionel Hart, broadcast from Rose Bay Theatre.
8.15 p.m.—Mr. Charles Renton, comedian.
8.22 p.m.—H. W. Varna and Company will present the play, "Mr. Pim Passes By," by A. A. Milne. Cast
Mr. Carraway Pim William Hume
Anne, a Maid Miss Clives
Dinah, Geo. Marden's Niece. . . Felix Clark
Brian Strange, an Artist Ken Fisher
Olivia Maren, George's Wife Muriel Conner
George Marden, J.P. H. W. Varna
Lady Marden, his Aunt Cleo Glover
The action is at George Marden's House, Buckinghamshire, England.
Act 1—Before Lunch.
Act 2—After Lunch.
Act 3—A few minute slater.
9.22 p.m.—Rose Bay Wintergarden Theatre Symphony Orchestra.
9.32 p.m.—Mr. Charles Renton.
9.39 p.m.—Radio Eisteddfod: A number of semi-finalists will be heard, drawn from the various sections, as follows:
Choral Section—Choirs drawn from those entering under: Section 1—Church Choirs; Section 2—Mixed Choirs; Section 3—Male Choir; Section 4—Female Choir; Section 5—Mixed Quartet; Section 6—Male Quartet.
Instrumental Section—Semi-finalists from the Instrumental Section include: Section 14—Championship Pianoforte Solo; Section 15—Pianoforte Solo, under 16 years of age.
Popular Section—Semi-finalists from the Popular Section include: Section 27—Popular Vocalists; Section 28—Comedians; Section 29—Radio Revue, and Section 30—Entertainers.
10.49 p.m.—Resume of following day's programme.
10.51 p.m.—Bennie Abrahams and his Romano's Restaurant Dance Band, broadcast from Romano's. During intervals between dances "Sun" news will be broadcast.
11.30 p.m.—National Anthem.

2GB, SYDNEY.

WEDNESDAY, 14th NOV., 1928.

MORNING SESSION.

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

AFTERNOON SESSION.

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

EVENING SESSION.

- 5.30 p.m.—Children's Session by Uncle George.
7 p.m.—Stock and Market reports by New Zealand Loan and Mercantile Agency Ltd.
7.15 p.m.—Music.
8 p.m.—2GB Instrumental Trio:
Miss Ada Brook, Mr. Cecil Berry, Mr. Cedric Ashton.
8.15 p.m.—Announcements.
8.20 p.m.—Songs by Miss Alcia Haywood.
8.27 p.m.—Violin solos by Mr. Cecil Berry.
8.32 p.m.—Mr. Stuart Peters, Scottish Entertainer.
8.45 p.m.—Address by Professor E. Wood.
9 p.m.—Weather report.

- 9.2 p.m.—Songs by Mr. Robert Scott.
9.9 p.m.—Cello solo by Mr. Cedric Ashton.
9.17 p.m.—Songs by Miss Alcia Haywood.
9.24 p.m.—Pianoforte solos by Miss Ada Brook.
9.30 p.m.—Mr. Stuart Peters, Scottish Entertainer.
9.37 p.m.—2GB Instrumental Trio.
9.50 p.m.—Songs by Mr. Robert Scott.
10 p.m.—Close down.

2 UW, SYDNEY

WEDNESDAY, 14th NOV., 1928.

MIDDAY SESSION.

- 12.30 p.m.—To-day's anniversary.
12.32 p.m.—Music.
1 p.m.—Clock and chimes.
1.1 p.m.—Music.
2 p.m.—National Association Political address.
2.15 p.m.—"Cheerio Talk."
2.30 p.m.—Close down.

AFTERNOON SESSION.

- 4.30 p.m.—Music.
5.30 p.m.—Bedtime stories by "Uncle Jack."
6.30 p.m.—Close down.

EVENING SESSION.

- 7 p.m.—Clock and chimes.
7.1 p.m.—News items, etc.
7.10 p.m.—Talk by Mr. J. M. Prentice.
7.30 p.m.—Musical Interlude.
7.35 p.m.—Political address.
7.55 p.m.—Items of interest.
8 p.m.—Clock and chimes.
8.1 p.m.—Music.
9 p.m.—Clock and chimes.
9.1 p.m.—Comments on Foreign affairs by Mr. J. M. Prentice.
9.10 p.m.—Music and request numbers.
10 p.m.—Close down.

3LO, MELBOURNE.

WEDNESDAY, 14th NOV., 1928.

EARLY MORNING SESSION.

- 7.15 a.m.—Morning Melodies.
7.20 a.m.—Morning Exercises to Music.
7.30 a.m.—Stock Reports; Market Reports; General News; Shipping; Sporting Information.
8.0 a.m.—Melbourne Observatory Time Signal; Express Train Information.
8.1 a.m.—Morning Melodies.
8.15 a.m.—Close Down.

MORNING SESSION.

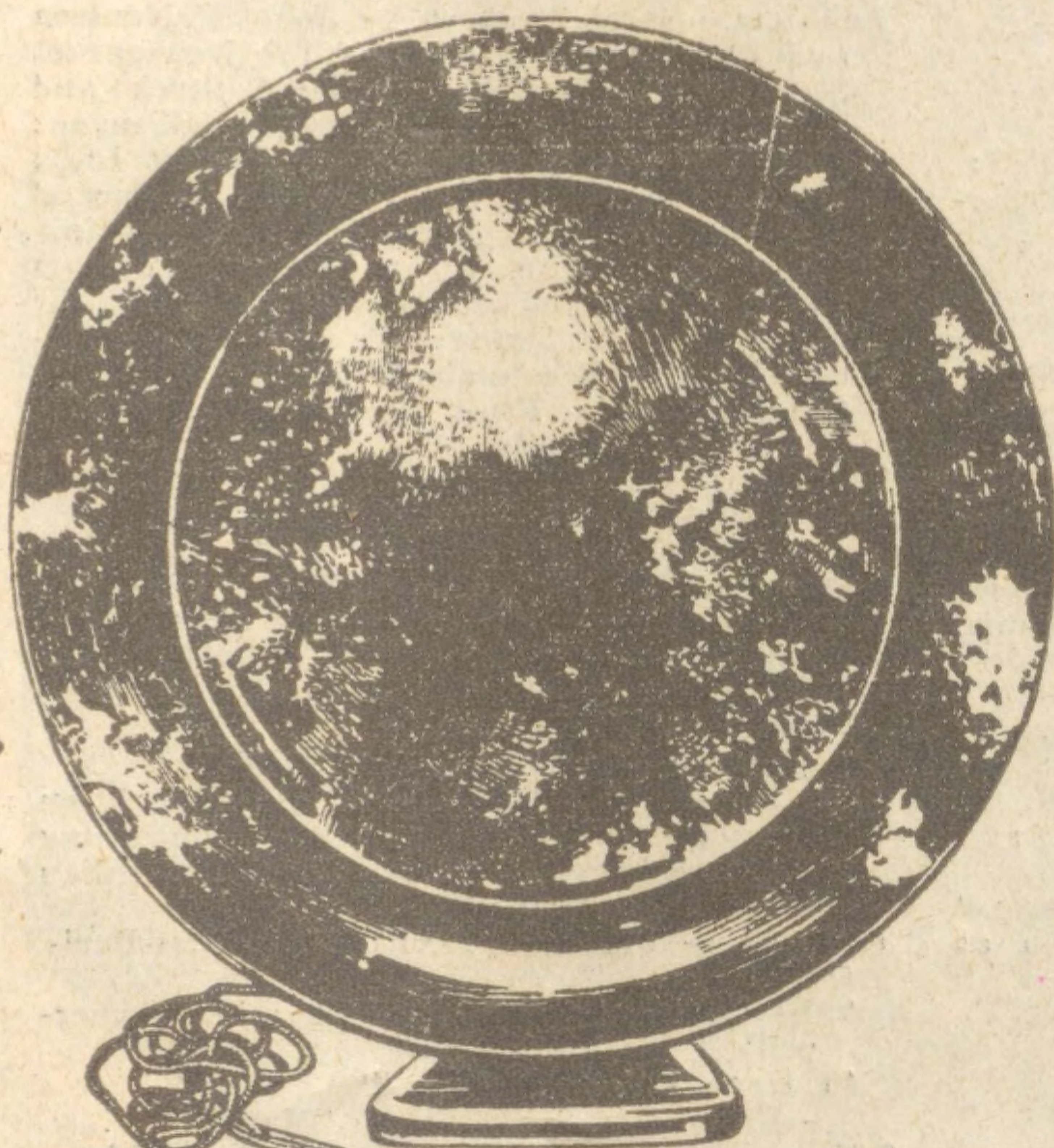
- 11.0 a.m.—3LO'S CULINARY COUNSELS or How to Create Creature Comforts with a Minimum of Cash.

RECIPE.**TEA CAKES.**

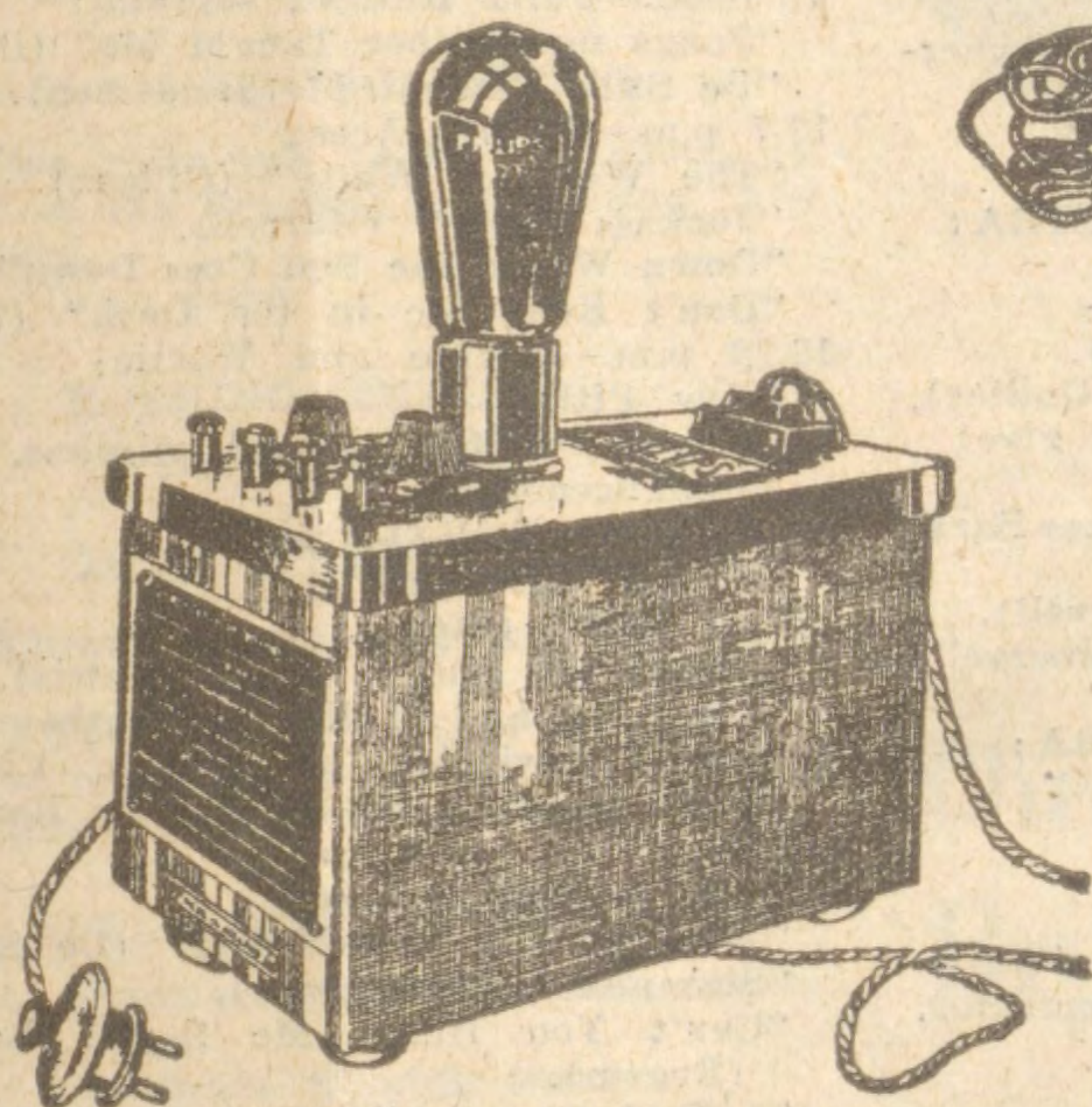
- ½lb. flour.
4 oz. sugar.
1 teaspoon baking powder.
Vanilla flavoring.
4oz. butter.
2 eggs.
2 tablespoons milk.
Beat butter and sugar to a cream. Add well-beaten eggs, then milk and essence. Add flour and baking powder sifted. Blend lightly and put in greased patty tins (about ½ full). Bake in hot oven for 15 minutes; turn on sieve to cool.
HOUSEHOLD HINT.—To clean carpets, mix one pint of ox gall into one gallon of water, and rub the surface of the carpet with this, lightly and evenly all over with a brush or cloth.
11.5 a.m.—MISS I. D. BEVAN:
"Home-made Confectionery."
11.20 a.m.—Musical Interlude.
11.25 a.m.—MRS. M. CALLAWAY MAHOOD:
"The Art of Decoration."
11.40 a.m.—Musical Interlude.

"Homerex" Radio Accessories Improve Your Radio Reception!

Buy Your
Accessories
on
Time Payment.



Easy
Instalments.
Small
Deposits.



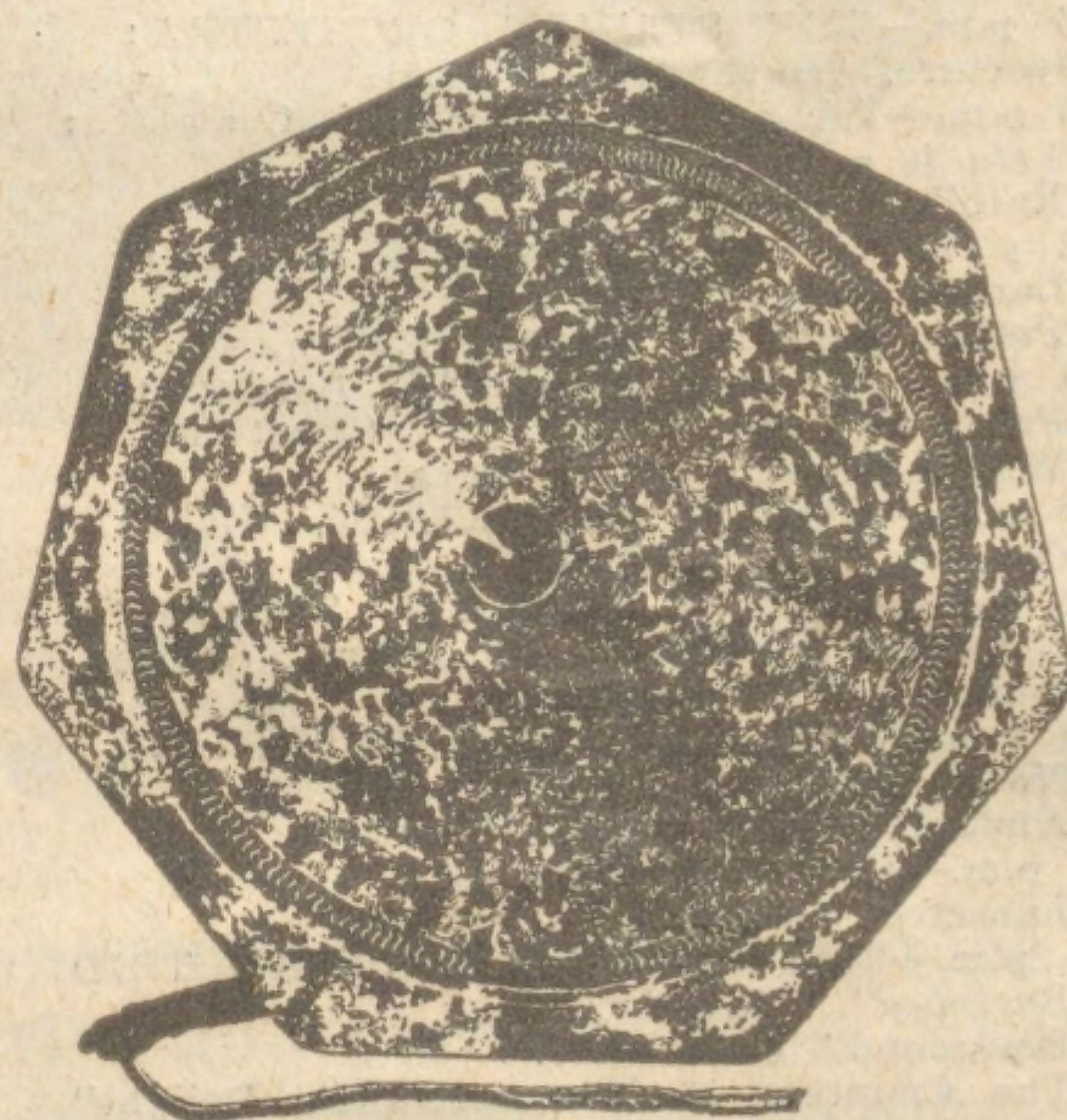
PHILIPS STANDARD "B"
ELIMINATOR, 372.

Here is the most popular power unit in Australia which, owing to a price reduction, is now actually a cheaper proposition than "B" Batteries. At its new price of £7/15/- there are none who need suffer the inconveniences of the dry battery.
Price **£7/15/-**

PHILIPS P.C.J.J. LOUD
SPEAKER.

For the enthusiast who wishes absolute perfection in radio reception the Philips P.C.J.J. Speaker offers all that can be desired at a price which is exceptionally low,
£6/10/-

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for the
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PHILIPS BABY GRAND LOUD
SPEAKER.

This is a particularly fine baby model with an exceptionally clear tone and pleasing appearance. Splendid value at **£3/15/-**

OPEN UNTIL 9 p.m. FRIDAY.

Home Recreations (Australia) Ltd.

"THE TIME PAYMENT HOUSE"



388 George Street Opp. Beard Watson's SYDNEY

11.45 a.m.—MRS. CLARENCE WEBER:
The Physical Culture Expert, will speak on:
"Physical Culture for Women."

MIDDAY SESSION.

12.0 noon.—Melbourne Observatory Time
Signal; Express Train Information.
12.1 p.m.—Prices Received by the Australian
Mines and Metals Association from the
London Stock Exchange this day; British
Official Wireless News from Rugby; Reu-
ter's and the Australian Press Association
Cables; "Argus" News Service.
12.15 p.m.—Newmarket Stock Sales; Special
Report of John McNamara and Co.
12.20 p.m.—JOHNSTON'S STUDIO BOYS:
March, "Collingwood."
12.25 p.m.—CONSTANCE FLAVEL:
"The Cloths of Heaven" (Dunhill).
"Wake Up."
12.32 p.m.—Stock Exchange information.
12.35 p.m.—JOHNSTON'S STUDIO BOYS:
"Selections from Harry Lauder's Repert-
toire."
12.45 p.m.—JAMES HILL, Baritone:
"Silent Moon."
"If I Were."
12.52 p.m.—JOHNSTON'S STUDIO BOYS:
Minstrel Song, "Keep dem Golden Gates."
One Step, "All Scotch."
1.2 p.m.—JAMES HILL, Baritone:
"Like Stars Above."
"Bonnie Wee Window."
1.9 p.m.—Meteorological Information;
Weather Forecast for Victoria, Tasmania,
South Australia and New South Wales;
Ocean Forecast; River Reports; Rainfall.
1.15 p.m.—CONSTANCE FLAVEL, Soprano:
"A Birthday" (Woodman).
"Mighty lak a Rose" (Nevin).
1.22 p.m.—JOHNSTON'S STUDIO BOYS:
"Three Dale Dances."
1.30 p.m.—Transmission from the Freemasons'
Hall, Collins Street, Melbourne. Speech at
the ROTARY CLUB LUNCHEON.
2.0 p.m.—Close Down.

AFTERNOON SESSION.

2.15 p.m.—THE STATION ORCHESTRA:
Overture, "Lurline" (Wallace).
2.25 p.m.—VALDA ST. NICOLAY, Contralto:
"Life is a Caravan" (del Riego).
"Rain" (Curran).
2.32 p.m.—THE STATION ORCHESTRA:
"Largo" (Beethoven).
"Petite Mazurka" (Sapellnikoff).
2.40 p.m.—OLIVER PEACOCK, Baritone:
"From Out the Long Ago" (Stratton).
"Where Heaven Is" (O'Hara).
2.47 p.m.—MOLLIE ROBERTSON, Violin:
"Canzona" (Raff).
2.52 p.m.—MOLLIE WARDEN, Soprano:
"My True Love Hath My Heart" (Parry).
"Dedication" (Franz).
2.59 p.m.—THE STATION ORCHESTRA:
"Noel" (Tschakowsky).
"Andante Cantabile" (Beethoven).
3.8 p.m.—FRANK HARWOOD,
Character Vocalist.
3.15 p.m.—THE IMPERIAL RUSSIAN TRIO
"Berceuse" (Tijinsky).
"Rosamond" (Schubert).
"The Countess of Westmoreland's Delight"
(Shild-Moffat).
3.30 p.m.—VALDA ST. NICOLAY, Contralto:
"The Fuchsia Tree" (Quilter).
"The Silver Ring" (Chaminade).
3.37 p.m.—THE STATION ORCHESTRA:
"Scenes from the South" (Nicode).
3.47 p.m.—OLIVER PEACOCK, Baritone:
"The Last Song" (Rogers).
"Thy Blue Eyes" (Lassen).
3.54 p.m.—A. ANDERSON AND JOSEPH
BARRIE, Clarinet and Flute:
"L'Encore" (Herbert).
4.0 p.m.—THE STATION ORCHESTRA:
Suite: "An Imaginary Ballet" (Coleridge-
Taylor).
4.10 p.m.—MOLLIE WARDEN, Soprano:
"A Brown Bird Singing" (Haydn Wood).
"Husheen" (Needham).
4.17 p.m.—THE STATION ORCHESTRA:
"Waltz Op. 48" (Tschakowsky).
"Meditation" (Tschakowsky).
4.27 p.m.—FRANK HARWOOD:
Character Vocalist.
4.34 p.m.—AGNES FORTUNE, Piano:
Waltz in D Flat (Chopin).

4.40 p.m.—THE STATION ORCHESTRA:
"Scherzo" (Mendelssohn).
"Serenata" (Reiser).
5.0 p.m.—"Herald" News Service; Stock
Exchange Information.
5.10 p.m.—Close Down.

EVENING SESSION.

6.0 p.m.—Answers to Letters and Birthday
Greetings by "MARY MARY."
6.30 p.m.—"MARY MARY" will tell the story
of "Don Quixote wins the Helmet of
Mandrino."

NIGHT SESSION.

7.5 p.m.—Stock Exchange Information.
7.15 p.m.—Special report by John McNamara
and Co.; Official Report of the Newmarket
Stock Sales by the Associated Stock and
Station Agents, Bourke Street, Melbourne;
Fish Market Reports by J. R. Borrett Ltd.;
Market Reports by the Victorian Producers'
Co-operative Co., Ltd.; Poultry, Grain,
Hay, Straw, Jute, Dairy produce, Potatoes
and Onions; Market Reports of Fruit by
the Victorian Fruiterers' Association. Re-
tail Prices; Wholesale Prices of Fruit by
the Wholesale Fruit Merchants' Associa-
tion; Citrus Fruits.
7.30 p.m.—News Service.
7.43 p.m.—Birthday Greetings.

OUT OF THE PAST.

7.45 p.m.—OUT OF THE PAST.
7.46 p.m.—Under the Auspices of the De-
partment of Agriculture, R. CROWE, Ex-
ports Superintendent, will speak on:
"Marketing Methods."
8.0 p.m.—A MAKER OF HISTORY.
8.2 p.m.—R. H. CAMPBELL will speak on
"Interstate Cricket Facts Concerning
Matches between England and Australian
Elevens in Sydney."

8.14 p.m.—VICTOR HARDING, Bass-Bari-
tone:
"She Came to the Village Church" (Somer-
vell).
"I Have Led Her Home."

—From the Song Cycle "Maud."
8.21 p.m.—THE STATION ORCHESTRA:
Suite, "Rustic Revels" (Fletcher).
8.31 p.m.—MARY MACK, Contralto:
"Break, Break, Break" (Mitchell).
"Now Sleeps the Crimson Petal" (Quilter).
8.38 p.m.—J. HOWLETT ROSS, will give:
"A Tennyson Recital."

8.53 p.m.—VICTOR HARDING, Bass-Bari-
tone:
"Oh, That 'twere Possible" (Somervell).
"Come Into the Garden, Maud" (Somervell)
—From the Song Cycle "Maud."

9.0 p.m.—THE STATION ORCHESTRA:
"Petite Suite de Fleurs" (Cowan).

9.9 p.m.—MARY MACK, Contralto:
"Rainbow" (Claude Haydon).
"To Sleep" (Claude Haydon).

9.17 p.m.—SALVATION ARMY HEAD-
QUARTERS STAFF BAND (Conductor,
George Dickens):
March, "Glory of the Combat."
Song, "Comrades in Arms."
Hymn, "Maidstone."

9.32 p.m.—MELBOURNE CHORAL UNION:
Selected.

9.39 p.m.—THE SALVATION ARMY HEAD-
QUARTERS STAFF BAND:
"Soldiers' Chorus from Faust" (Gounod).
"Meditation" (Rousseau).
March, "Our Army Brave and True."

9.54 p.m.—MELBOURNE CHORAL UNION:
Selected.

10.1 p.m.—SALVATION ARMY HEAD-
QUARTERS STAFF BAND:
"Gems from The Elijah."
"The Glory Song."
March, "Flag of Freedom."

10.19 p.m.—"Argus" News Service; British
Official Wireless News from Rugby;
Meteorological Information.

10.29 p.m.—THE STATION ORCHESTRA:
Selection of Songs (Schubert).

10.40 p.m.—Announcements.

10.44 p.m.—OUR GREAT THOUGHT FOR
TO-DAY IS:

"A jest's prosperity lies in the ear of him
that hears it, never in the tongue of him
that makes it."—Shakespeare.

10.45 p.m.—RADI-O-ACES:
11.40 p.m.—GOD SAVE THE KING.

3AR, MELBOURNE.

WEDNESDAY, 14th NOV., 1928.

MORNING NEWS SESSION.

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

MORNING MUSICAL SESSION.

11 a.m.—Radi-o-Aces:
"Hallelujah" (Youmans).
"Sometimes I'm Happy" (Youmans).
"Varsity Drag" (Henderson).
"Chloe" (Kahn).
11.15 a.m.—Julia Russell, soprano:
"Chant Hindoo" (H. Bemberg).
"My Heart's Desire" (Coningsby Clarke).
11.22 a.m.—Radi-o-Aces:
"Lonely in a Crowd" (Greer).
"Louisiana" (Schafer).
"Nesting Time" (Nussbaum).
"Just a Year Ago To-night" (Rose).
11.37 a.m.—Archie and Wattie:
Cheerful Chirpings.
11.44 a.m.—Radi-o-Aces:
"Golden Gate" (Jolson).
"Harvest Moon" (Baye).
"Rain" (Ford).
"Mine, all Mine" (Ruby).
12 noon.—Julia Russell, soprano:
"Songs my Mother Taught Me" (Dvorak).
"Be Still, Blackbird" (Sanderson).
12.7 p.m.—Radi-O-Aces:
"The Wedding Waltz" (Gilbert).
"Jackass Blues" (Karcell).
"Down Where the Sun Goes Down" (Jones).
"Don't Keep Me in the Dark" (Bryan).
12.22 p.m.—Archie and Wattie:
Pithy Piths.
12.30 p.m.—British official wireless.
Announcements.
12.40 p.m.—Radi-O-Aces:
"Brown" (Darbney).
"Lo Nah" (Stept).
"Happy Go Lucky Lane" (Lewis).
"Starlight and Tulips" (Nausbaum).
1 p.m.—Description of Cricket, Victoria v.
South Australia, at M.C.G., by Rod McGre-
gor.
1.15 p.m.—Radi-O-Aces:
"Without You, Sweetheart" (De Silva).
"Stampede" (Henderson).
"Can't You Hear Me Say I Lov You"
(Brown).
"I Told Them All About You" (Yellen).
1.30 p.m.—Close down.

AFTERNOON SESSION.

2 p.m.—Description of Cricket Match, Victoria
v. South Australia, at M.C.G., by Rod
McGregor.
4 p.m.—Interlude from Studio.
4.15 p.m.—Resumption of Cricket.
6 p.m.—Stumps Scores.

EVENING SESSION.

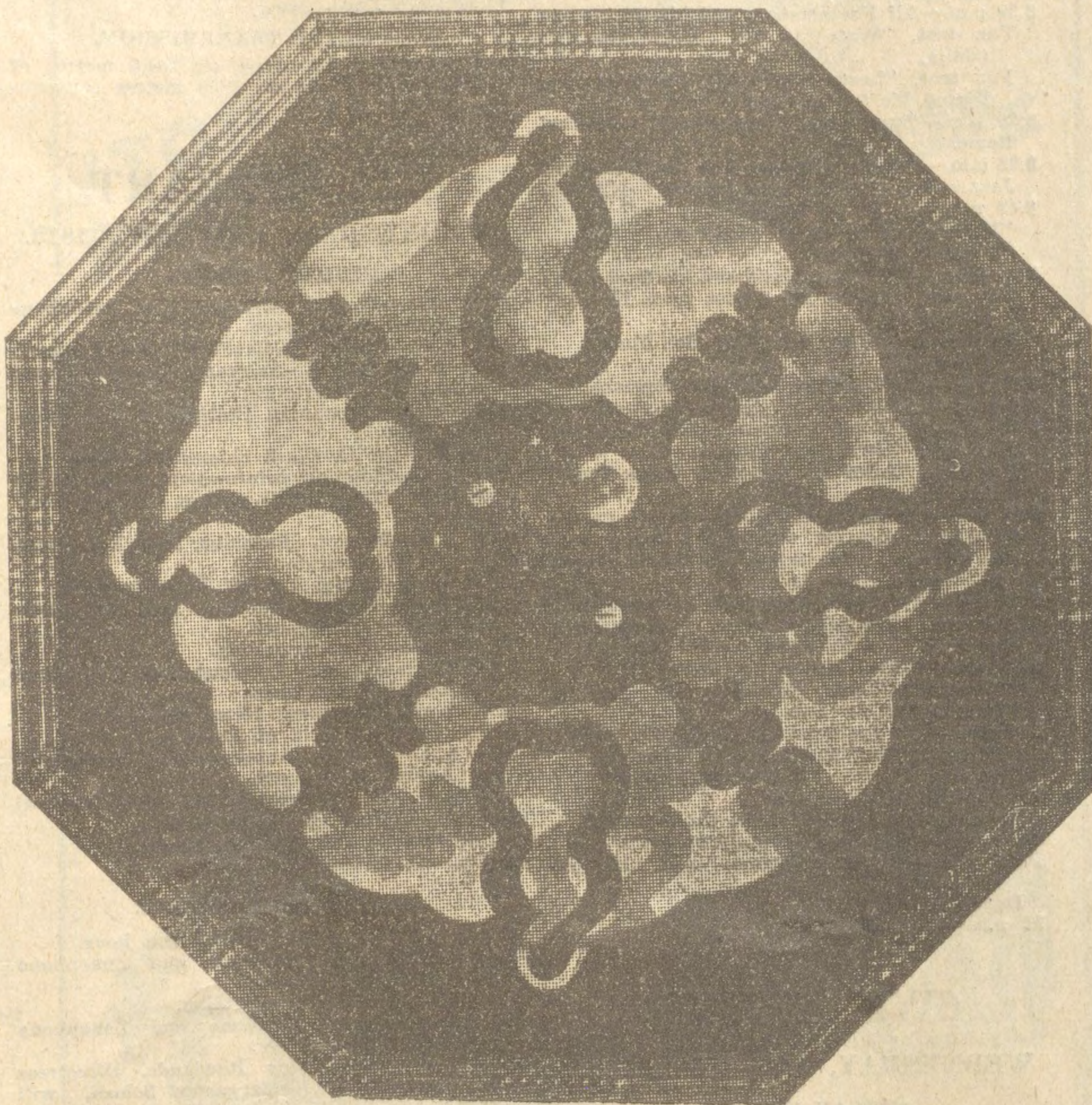
6.5 p.m.—A Recital of Artists from all
countries.

NIGHT SESSION.

8 p.m.—P. W. Pearce, Physical Culture
Talk, "The Penalty for Sitting Still."
8.15 p.m.—Under the auspices of the Advance
Bendigo and the North League: Boort.
8.30 p.m.—Imperial Russian Trio. Arved
Norit, violin; John Berzinsky, 'cello; Wil-
liam Ibster, piano:
Violin, "Serenade Colombine" (Pierne).
Piano, "Young Girls in the Garden" (Mon-
pou).

"Trio, F Sharp Major—Andante con Moto" (Franck).
 8.45 p.m.—Milly McCormack, soprano:
 "The Fields are Full" (Gibbs).
 "Sometimes in Summer" (Bennett).
 8.52 p.m.—Vera Buck, piano:
 "First Movement Pastoral Sonata" (Beethoven).
 "Dancing Doll" (Poldini).
 9.2 p.m.—Millie McCormack, soprano:
 "Ah, How Delightful the Morning" (Reynolds).
 "That's All" (Brahe).
 9.9 p.m.—Professor Berry:
 "Baltimore, the Monumental City."
 9.24 p.m.—Vera Buck, piano:
 "Gavotte" (Gluck-Brahms).
 "Volga Boat Song" (Ar. Vera Buck).
 9.30 p.m.—Transmission from the Victory Theatre, St. Kilda: The famous Concert Orchestra under the baton of Henry Penn.
 10.30 p.m.—Frank Harwood, character vocalist, by permission of Tivoli Theatres Ltd.: Selected items.
 10.37 p.m.—French Bros., banjoists:
 "Dream House" (Cowan).
 "You're a Real Sweetheart" (Friend).
 10.44 p.m.—Frank Harwood, character vocalist: Selected.
 10.51 p.m.—French Bros., banjoists:
 "Believing" (Johnson).
 "Memories o' Home."
 10.55 p.m.—"Age" News Service, exclusive to 3AR.
 10.58 p.m.—Weather Forecast.
 10.59 p.m.—Our Australian Goo-night Quote
 11 p.m.—"God Save the King."

The Diaphragm is Sprung!



4QG, BRISBANE

WEDNESDAY, 14th NOV., 1928.

EARLY MORNING SESSION.

8 a.m.—This morning's news, supplied by courtesy of the Brisbane metropolitan daily newspapers.
 8.30 a.m.—Close down.

MORNING SESSION.

11 a.m. to 12 noon.

MIDDAY SESSION.

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

AFTERNOON SESSION.

3 p.m.—A programme of electrically reproduced records.
 3.30 p.m.—Mail train running times.
 3.31 p.m.—A recital by Mr. George Sampson, F.R.C.O. (city organist).
 4 p.m.—Afternoon news.
 4.30 p.m.—Close down.

EARLY EVENING SESSION.

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

NIGHT SESSION.

A programme of dance music.

The All British M.P.A. Plaque Speaker

A substantially built and handsomely finished cone type Speaker. Its volume, sensitivity, and purity of tone have won the praise of the most critical experts, and no other Speaker anywhere approaches it at the price of

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8 p.m.—From the Studio:

Alf Featherstone and his Orchestra—

Rhythmic paraphrase, "Echoes or Ireland" (arr. Lange).

Medley, "Savoy Scottish" (arr. Somers).

8.10 p.m.—May Roberts, soprano:

"Nightingale of June."

"Vale."

8.20 p.m.—Alf Featherstone and his Orchestra:
Fox trot, "Watching the World Go By" (Ball).

Fox trot, "Last Night I Dreamed You Kissed Me." (Lambardo).

8.30 p.m.—Tom Muller (elocutionist)—selected items.

8.38 p.m.—Alf Featherstone and his Orchestra:
Jazz-waltz, "Girl of My Dreams" (Clapp).

8.48 p.m.—A. N. Falk, baritone:

"Muleteer of Malaga" (Trotter).

"Salaam" (Lang).

8.55 p.m.—Alf Featherstone and his Orchestra:
Fox trot, "Across the Street from Heaven" (Nerman).

Fox trot, "Who Wouldn't Be Blue" (Davies).

9.5 p.m.—Metropolitan weather forecast.

9.6 p.m.—Movements of lighthouse steamers.

9.8 p.m.—Alf Featherstone and his Orchestra:
Fox trot, "Beautiful" (Shay).

Fox trot, "After My Laughter Came Tears" (Tobias).

9.18 p.m.—Tecomia will deliver another garden talk in connection with 4QG's flower garden scheme. His subject will be "Mulching the Summer Annuals."

9.30 p.m.—Alf Featherstone and his Orchestra:
Fox trot, "The Man I Love" (Gerschwein).

Fox trot, "I'm in Love Again" (Porter).

9.40 p.m.—Mabel Malouf, soprano:

"Carmena" (Lane Wilson).

"Morning" (Oley Speaks).

9.48 p.m.—Alf Featherstone and his Orchestra:
Fox trot, "Hum and Strum" (Meyer).

Fox trot, "Crazy Rhythm" (Meyer).

10 p.m.—A. K. Chapman:

An astronomy talk, "Orion the Hunter."

10.10 p.m.—Late news; weather news.

10.25 p.m.—Alf Featherstone and his Orchestra:

Dance music.

11 p.m.—Close down.

6WF, PERTH.

WEDNESDAY, 14th NOV., 1928.

MIDDAY SESSION.

12.30 p.m.—Tune in.

12.35 p.m.—Markets, News and cables.

1 p.m.—Time signal.

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

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.—Afternoon Tea Concert relayed from the Rosebud Cafe, Perth.
Vocal and instrumental numbers from the Studio.

4.30 p.m.—Close down.

EVENING SESSION.

6.45 p.m.—Tune in.

The evening transmission is broadcast on 104.5 metres as well as the usual wavelength.

6.48 p.m.—Uncle Duffy's evening with the Kids.

7.5 p.m.—Musical programme.

7.15 p.m.—Talk: "First Aid" by Dr. Winifred Holloway, of London.

7.30 p.m.—Markets, News and cables.

7.45 p.m.—Talk: "Stock Diseases" 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.

8.5 p.m.—Variety Night:

Musical programme from the studio, including vocal and instrumental artists.

9 p.m.—Late news items by courtesy of "The Daily News" newspaper Co.

Ships within range announcement.

Weather report and forecast.

Station announcements.

10.30 p.m.—Close down.

104.5 METRE TRANSMISSION.

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

7ZL, HOBART

WEDNESDAY, 14th NOV., 1928.

MIDDAY SESSION.

11.30 a.m.—Messrs. Autotone and Zonophone in Aerial Undertones.

11.34 a.m.—Special Midlands Weather Forecast.

11.35 a.m.—Messrs. Autotone and Zonophone in Aerial Undertones.

11.55 a.m.—Tasmanian Stations 9 a.m. Weather Report.

12 noon.—G.P.O. Clock chimes the hour.

12.1 p.m.—Shipping information. Ships within wireless range. Mail notices. Housewives' Guide.

12.8 p.m.—Messrs. Autotone and Zonophone in Aerial Undertones.

12.11 p.m.—British Official Wireless News.

12.20 p.m.—Messrs. Autotone and Zonophone in Aerial Undertones.

12.29 p.m.—Announcements.

12.33 p.m.—Messrs. Autotone and Zonophone in Aerial Undertones.

12.55 p.m.—"Mercury" News Service.

Produce Sales held at Railway.

1.10 p.m.—Messrs. Autotone and Zonophone in Aerial Undertones.

1.30 p.m.—Transmission from the Imperial Hotel, Collins Street, Hobart:

Speeches at the Rotary Luncheon.

2 p.m.—Close down.

AFTERNOON SESSION.

3 p.m.—G.P.O. Clock chimes the hour.

3.1 p.m.—Messrs. Autotone and Zonophone in Aerial Undertones.

3.4 p.m.—Weather information.

3.5 p.m.—Messrs. Autotone and Zonophone in Aerial Undertones.

4.15 p.m.—Eileen May Rowlands, Directress of Hobart Free Kindergarten School, will speak on: "Child Training."

4.30 p.m.—Readings from "Illustrated Tasmanian Mail."

4.45 p.m.—Close down.

EARLY EVENING SESSION.**CHILDREN'S HOUR.**

6.15 p.m.—Transmission from the Beaumaris Zoo: Pithy pars. from the pit of the Polar Bears.

6.30 p.m.—Little Teddy Richardson (Uncle David's Nephew):
"Someday you'll say O.K."

"I can't think—I must be in love."

6.40 p.m.—Answers to Letters and Birthday Greetings by "Uncle David."

6.45 p.m.—Request items by the Messrs. Autotone and Zonophone in Aerial Undertones.

7.15 p.m.—"Mercury" special Tasmanian News Service. Railway Auction Produce Sales. Weather information. Hobart Stock Exchange quotations. Results of prizes awarded at Devonport Show.

EVENING SESSION.

7.30 p.m.—Geo. Nation will speak on:

"Useful Hints for Amateur Gardeners."

7.45 p.m.—T. Finch, Professional Coach of the Royal Tennis Club of Tasmania, will speak on:

"Royal Tennis."

8 p.m.—G.P.O. Clock chimes the hour.

8.1 p.m.—Acknowledgment of 7ZL and "Mercury" Appeal for Wireless Equipment of Hobart General Hospital. Senior Birthday Greetings.

8.2 p.m.—Fifty Years Ago To-day.

8.6 p.m.—Recital of Instrumental and Vocal Items by leading International Artists, specially arranged by Findlay's Warehouse.

NEWS SESSION.

9.45 p.m.—British Official Wireless News, "Mercury" News Service. Ships within wireless range. Tasmanian District Weather Report. Results of prizes awarded at the Devonport Show.

10 p.m.—G.P.O. Clock chimes the hour.
"God Save the King."**Thursday, November 15**

New South Wales Broadcasting Company, Limited.

2FC, SERVICE.**EARLY MORNING SESSION.**

7 a.m.—"Big Ben" and announcements.

7.5 a.m.—Studio Music.

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

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

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

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

7.50 a.m.—Studio Music.

8 a.m.—"Big Ben." Close down.

MORNING SESSION.

10 a.m.—"Big Ben" and announcements.

10.2 a.m.—Studio Music.

10.10 a.m.—"Sydney Morning Herald" news service.

10.25 a.m.—Studio Music.

10.30 a.m.—Last minute sporting information by the 2FC Racing Commissioner.

10.40 a.m.—Studio Music.

10.45 a.m.—Country Women's Session by "Pandora."

11 a.m.—"Big Ben."

A.P.A. and Reuter's Cable Services.

11.5 a.m.—Close down.

MIDDAY SESSION.

12 noon.—"Big Ben" and announcements.

12.1 p.m.—Stock Exchange, first call.

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

12.5 p.m.—Studio Music.

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

12.15 p.m.—Rugby wireless news.

12.18 p.m.—A. Reading.

12.30 p.m.—Studio Music.

1 p.m.—"Big Ben." Weather intelligence.

1.3 p.m.—"Evening News" midday news service.

Producers' Distributing Society's Report.

1.20 p.m.—Studio Music.

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

1.30 p.m.—Studio Music.

1.50 p.m.—Last minute sporting information by the 2FC Racing Commissioner.

2 p.m.—"Big Ben." Close down.

AFTERNOON SESSION.

2.30 p.m.—Programme announcements.

2.32 p.m.—Educational Session:

Subject, "A Talk on Animals," interspersed with suitable music.

3 p.m.—"Big Ben." Pianoforte reproduction.

3.15 p.m.—Studio Music.

3.45 p.m.—A Talk arranged by the Kindergarten Union.

4 p.m.—Thelma Lansdowne, mezzo:

(a) "A Southern Song" (Landon Ronald).

(b) "A Little Fleet of Cloud-boats" (Woodforde-Finden).

4.3 p.m.—Margot Toner, pianoforte:

"1st Movement, Walsein Sonata" (Beethoven).

4.18 p.m.—Colin Ferret, basso.

4.26 p.m.—Thelma Lansdowne, mezzo:

(a) "Scenes that are Brightest" (Vincent Wallace).

(b) "Praise" (Haydn Wood).

4.34 p.m.—Margot Toner, pianoforte:

1. "At Sunset" (Macdowell).
 - "Scotch Poem" (Macdowell).
 2. "Canzone Lituana" (Chopin).
- 4.45 p.m.—Stock Exchange, third call.
- 4.47 p.m.—Colin Ferret, basso.
- 4.54 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 Children's Session, conducted by the "Hello Man." Letters and stories. Music and entertainment.
- 6.30 p.m.—Dalgety's market reports (wheat, wheat and stock).
- 6.40 p.m.—Fruit and vegetable markets.
- 6.43 p.m.—Stock Exchange information.
- 6.45 p.m.—Weather and shipping news.
- 6.48 p.m.—Rugby wireless news.
- 6.50 p.m.—Late sporting news.
- 7 p.m.—"Big Ben." Late news service.
- 7.10 p.m.—The 2FC Dinner Quartet, conducted by Horace Keats:
- "Petite Caline" (Gillet).
 - "Second Waltz" (Godard).
 - "Romance" (Sibelius).
 - "The Southern Maid" (Fraser-Simson).
 - A "Summer's Morn" (Haines).
 - "On the Way to Kew" (Clarke).

NIGHT SESSION.

- 7.40 p.m.—Programme announcements.
- 7.47 p.m.—Studio music. Pianoforte reproduction.
- 7.59 p.m.—Foreword to the next item.
- 8 p.m.—"Big Ben." From the Capitol Theatre. Ted Henke land his Stage Band, with Fred Scholl at the Wurlitzer organ.
- 8.20 p.m.—From the Studio: A Spanish Programme arranged by Cyril Monk:
1. "Suite for violin and piano" (De Falla). (Founded upon popular Spanish songs.) Cyril Monk, violin. Frank Hutchens, piano.
 2. Pianoforte solos:
 - (a) "Cadez" (Albeniz).
 - (b) "Tango" (Albeniz).
 Frank Hutchens.
 3. Violin solos:
 - (a) "Malageuna" (Albeniz) (arr. Kreisler).
 - (b) "Dance from the Opera"—"La Vidor Brevi" (De Falla) (arr. Kreisler).
 Cyril Monk.
 4. Pianoforte solos:
 - (a) "Triana" (Albeniz).
 - (b) "Serenade" (Mowrey).
 Frank Hutchens.
 5. Violin solo: "Romanza Andaluze" (Sarasate). Cyril Monk.
- 9.10 p.m.—Late weather forecast. From the Capitol Theatre: Stage presentation.
- 9.30 p.m.—From the Studio: Captain Fred Aarons: Talk: "Lope de Vega and his Times."
- 9.45 p.m.—Radio Eisteddfod: A number of semi-finalists will be heard, drawn from the various sections, as follows:—
- Vocal Section.—Semi-finalists drawn from the Vocal section, which includes Section 7, soprano solo; Section 8, mezzo soprano; Section 9, contralto; Section 10, tenor; Section 11, baritone; Section 12, bass; and Section 13, duets.
- Instrumental Section.—Semi-finalists from the instrumental section include Section 16, champion violin solo; Section 17, violin solo, under 16 years; Section 18, cello solo; Section 19, brass or military bands; Section 20, B Flat cornet solo; Section 21, saxophone solo; Section 22, dance bands.
- Grand Vocal Championship.—Semi-finalists in the grand vocal championship, Section 34.
- Elocutionary Sections.—Semi-finalists in the elocutionary sections: Section 23, radio sketches; Section 24, radio plays; Section 25, debates; Section 26, impromptu announcer.

STOP POURING MONEY DOWN THE DRAIN

LASTS FOR YEARS

IMPROVES YOUR TONE

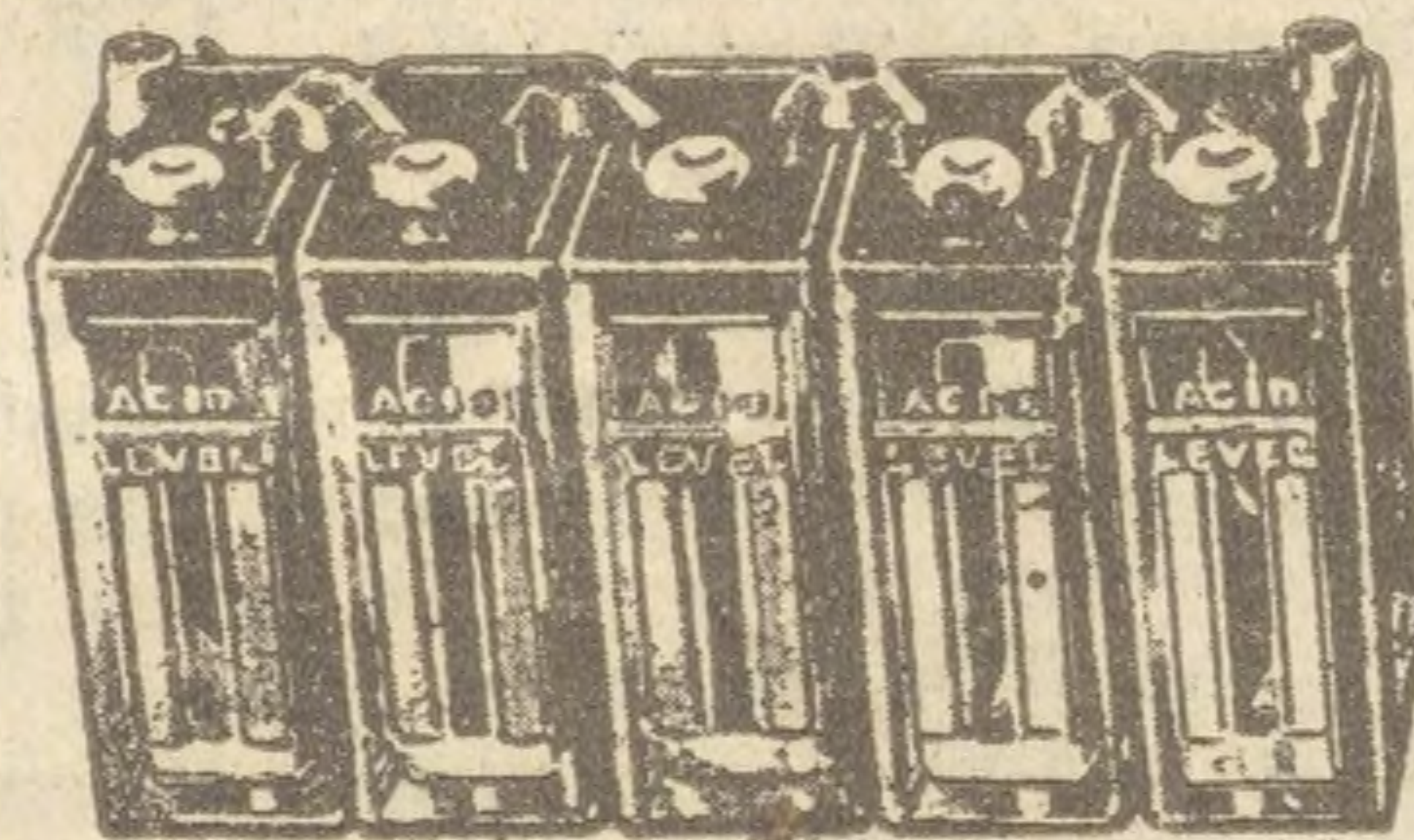
INCREASES YOUR RANGE

BUY AN

OLDHAM

Oldham Prices:

20 Volt	-	25/-
40 Volt	-	50/-
60 Volt	-	75/-
80 Volt	-	100/-
100 Volt	-	125/-
120 Volt	-	150/-



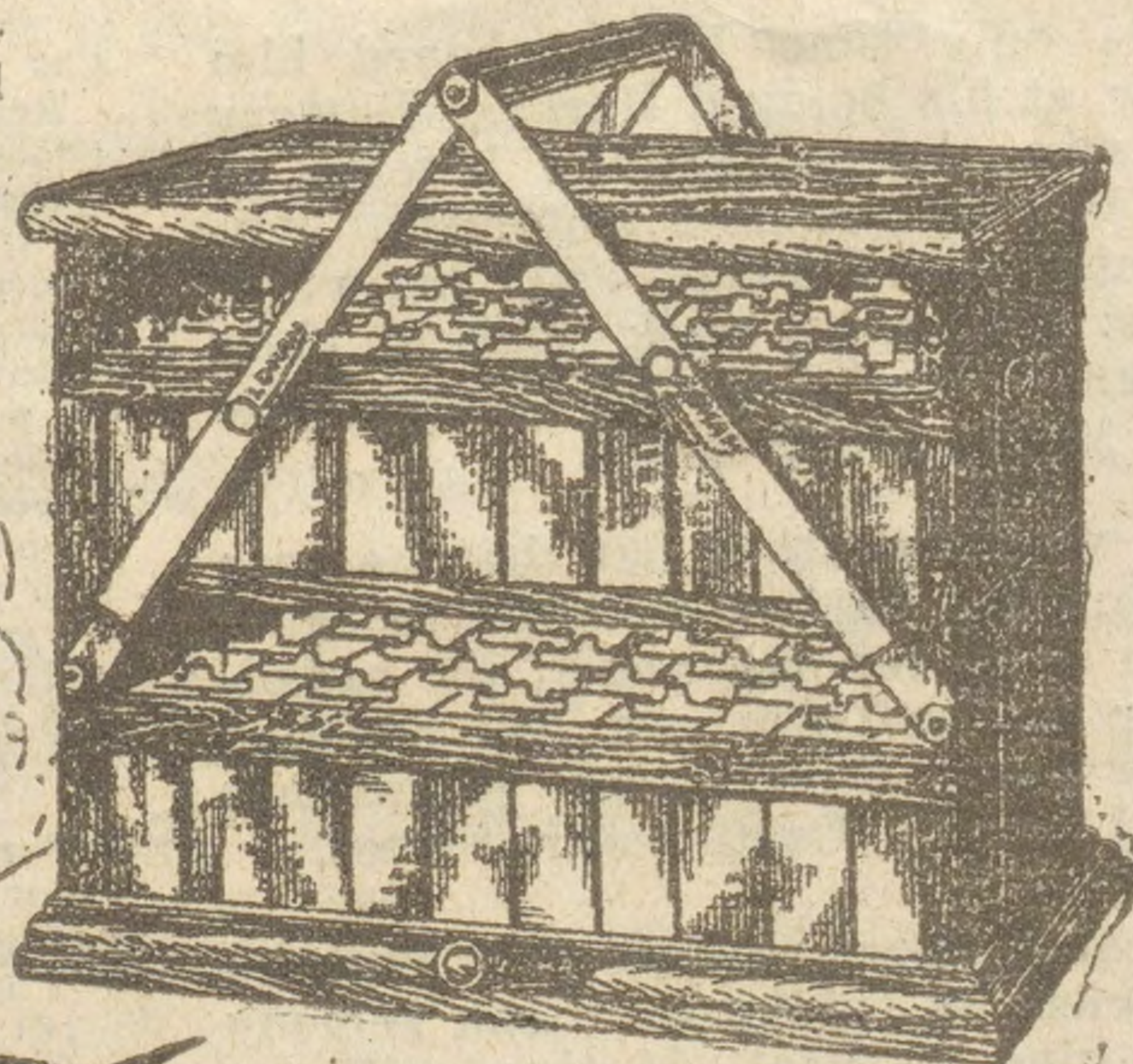
H.T. ACCUMULATOR

Oldham prices include carrying handles and lids. Oldham Accumulators can be supplied charged and filled ready for immediate use. Obtainable at all Radio Stores.

Sole Agents:

NOYES
BROS. (SYDNEY) LTD
115 CLARENCE ST.
SYDNEY
and at Brisbane & Newcastle

O.W.W.





Slow Drivers!

My husband is at the police court, paying over the money saved for my new winter hat as the penalty for fast driving.

Is he annoyed about it? Did you ever know a painfully slow driver who never exceeded 18½ miles an hour? You have! Well, then, you cannot imagine such a driver objecting to paying a fine for "speeding"?

Why, my husband is so full of pride that he fairly oozes gratification! He will tell all his friends, weary his typiste, drive me insane, and cut himself shaving while turning round to discuss it.

In his heart he believes himself "a very devil of a fellow"! Actually the only two things we ever passed on the road were a hearse and a "cruising" taxi. Veritably, I believe he paid that policeman to "book" him!

If there is one subject more than another on which he loves to wax eloquent, it is the woman motorist. I saw a half finished screed on his desk on that very subject. It dates back from the time when he blocked the road at a 15 mile crawl and an angry lady asked him why he didn't "cut the grass on his tyres"!

My husband swelled out with rage and I had three bruised ribs from his overcrowding on the front seat. Now the sight of a woman at the wheel causes him to stamp on the accelerator until we are flying through the air at 19½ miles to the hour!

The only time I ever heard him swear at his beloved Burgess Battery was when he accidentally listened in to a talk to feminine motorists. Apparently the Creator, in his view, meant women to walk behind their husbands, like a picture I once saw of a Mormon entourage.

I'll wager another hat that he uses his Burgess Battery to-night to catch police court reports, and if the broadcaster leaves them out, my husband will write to New System Telephones Pty. Ltd., 280 Castlereagh Street.

Because these folks sell Burgess Batteries, he thinks they can remedy everything in life! If they will recover the cost of my lost hat I will bless them eternally.

Australian compositions.—Include entrants under Section 31, best original song; Section 32, best original pianoforte composition; and Section 33, best original violin composition.
10.50 p.m.—From the Hotel Australia: Cec Morrison's Dance Band.
10.58 p.m.—From the Studio: To-morrow's programme and late news.
11 p.m.—"Big Ben." Cec Morrison's Dance Band from the Hotel Australia.
11.30 p.m.—National Anthem.

2BL, SYDNEY.

THURSDAY, 15th NOVEMBER, 1928.

MORNING SESSION.

8 a.m.—G.P.O. Clock and chimes.
Metropolitan Weather report.
8.1 a.m.—State Weather report.
8.2 a.m.—Studio music.
8.15 a.m.—G.P.O. Clock and chimes.
News from the "Daily Telegraph Pictorial."
8.25 a.m.—Studio music.
8.30 a.m.—G.P.O. Clock and chimes.
Studio music.
8.35 a.m.—Information, Mails, shipping, arrivals, departures and sailings.
8.38 a.m.—News from the "Daily Telegraph Pictorial."
8.45 a.m.—G.P.O. Clock and Chimes.
Studio music.
9 a.m.—G.P.O. Clock and chimes.
Studio music.
9.30 a.m.—Half an hour with silent friends.
10 a.m.—G.P.O. Clock and chimes.
Close down.

MIDDAY SESSION.

11 a.m.—G.P.O. Clock and chimes.
Women's Session.
11.30 a.m.—Miss Pam—Recipes and other items of interest.
12 noon.—G.P.O. Clock and chimes.
Special Ocean forecast and weather report.
12.3 p.m.—Studio music.
12.30 p.m.—Shipping and mails.
12.35 p.m.—Market reports.
12.48 p.m.—"Sun" Midday news service.
1 p.m.—Studio Music.
1.30 p.m.—Talk to children and special entertainment for Children in Hospital.
2 p.m.—G.P.O. Clock and chimes.
Close down.

AFTERNOON SESSION.

3.45 p.m.—G.P.O. Clock and chimes.
Musical programme from the Studio.
4 p.m.—Bennie Abrahams and his Romano's Restaurant Dance Band broadcast from Romano's.
4.10 p.m.—"Sun" news service.
4.20 p.m.—Miss Shelia Stack, mezzo soprano:
(a) "Friend o' Mine" (Sanderson).
(b) "The coming of a Dream" (Richard Knight).
4.27 p.m.—Studio Music.
4.32 p.m.—Miss Edna Lister, contralto:
(a) "Elegie" (Massenet).
(b) "My Heart is like a dreary night" (Larsen).
4.39 p.m.—Bennie Abrahams and his Romano's Restaurant Dance Band.
4.45 p.m.—Miss Edna Lister:
(a) "Buy my strawberries" (Oliver).
(b) "Down Vauxhall Way" (Oliver).
4.52 p.m.—"Sun" news.
4.55 p.m.—Bennie Abrahams and his Romano's Restaurant Dance Band.
5.5 p.m.—Radio Eisteddfod: Semi-finalists in the Radio Eisteddfod will be heard, drawn from the various sections including vocal, instrumental and humorous items.
5.35 p.m.—Producers Distributing Society's Poultry report.
5.37 p.m.—Features of evening's programme.
5.38 p.m.—"Sun" news item.

EARLY EVENING SESSION.

5.40 p.m.—Children's music and entertainment.
6 p.m.—Children's letters and stories.
6.30 p.m.—"Sun" news and late sporting.
6.40 p.m.—2BL Dinner Quartette.
(a) "Reconciliation Polka" (Drigo).
(b) "Serenade" (Gounod).
(c) "Sun Flakes" (Phillips).
(d) "Riviera Scenes" (Brookes).
(e) "Serenade d'Amour" (Waldau).
(f) "Rusticarella" (Cortopassi).

7.10 p.m.—Australian Mercantile Land and Finance Co.'s report.
Weather report and forecast by courtesy of Govt. Meteorologist.
Producers Distributing Society's Fruit and Vegetable Market report.
Grain and fodder report ("Sun.")
Dairy Produce report ("Sun.")
7.25 p.m.—Mr. Pim and Miss Pam in advertising talks and nonsense.
7.55 p.m.—Programme and other announcements.

EVENING SESSION.

8 p.m.—G.P.O. Clock and chimes.
2BL Topical Chorus.
8.3 p.m.—Mr. Peter Sutherland, basso.
8.10 p.m.—Sketch by Mr. Ellis Price and Mrs. Dobrinsky entitled "The Debutante" by Ellis Price.
8.20 p.m.—Dulcie Starkey, soprano, and Esmond Lecchi, baritone:
(a) Duet, "Homing" (Del Riego).
(b) Baritone Solo, "The Scented Dusk" (Nugent).
(c) Soprano solo, "The Rose over the Way" (Brady).
Soprano solo, "Chinese Lullaby" (Bowers).
(d) Baritone solo, "There's a song down every roadway" (Haydn Wood).
8.30 p.m.—Miss Dagmar Roberts, pianist:
(a) "La Melancholie" (Kuhe).
(b) "Fire Music" (Wagner-Brassin).
8.37 p.m.—Mr. Ellis Price, elocutionist: "Thirsty Work."
8.43 p.m.—The New South Wales Broadcasting Company's Orchestra conducted, by Mr. Willie Redstone.
8.58 p.m.—Weather report and forecast by courtesy of Govt. Meteorologist.
9 p.m.—G.P.O. Clock and Chimes.
Mr. Charles Lawrence, entertainer at the piano:
(a) "Where are they."
(b) "Our Debating Society."
9.10 p.m.—Talk on the English Poet "Ernest Christopher" by Miss Norah Alexander.
9.20 p.m.—The New South Wales Broadcasting Orchestra.
9.35 p.m.—Miss Dulcie Starkey, and Esmond Lecchi:
(a) Baritone solo: "Mifanwy" (Forster).
(b) Soprano solo, "A Caution" (Hope).
(c) Soprano solo, "Cradle me low" (Brahe).
(d) Duet, "When song is sweet" (Sans Souci).
(e) Duet, "I did not know" (Geehl).
9.45 p.m.—Miss Dagmar Roberts:
(a) "Barcarolle in F Minor" (Rubinstein).
(b) "Rackoczy March" (Liszt).
9.52 p.m.—Mr. Peter Sutherland.
9.59 p.m.—The New South Wales Broadcasting Company's Orchestra.
10.15 p.m.—Mr. Charles Lawrence:
(a) "Public Conversations."
(b) "Married and Single."
10.25 p.m.—Resume of following day's programme.
10.30 p.m.—National Anthem.

2GB, SYDNEY

THURSDAY, 15th NOVEMBER, 1928.

MORNING SESSION.

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

AFTERNOON SESSION.

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

EVENING SESSION.

5.30 p.m.—Children's Session by Uncle George.
7 p.m.—Stock and Market reports by New Zealand Loan and Mercantile Agency Ltd.
7.15 p.m.—Music.
8 p.m.—Violin Solos by Mr. Cecil Berry.
8.10 p.m.—Songs by Victor Earle.
8.17 p.m.—Announcements.
8.22 p.m.—Sid and Molly Owen and Joyce Slatyer, Instrumentalists.

8.30 p.m.—Mr. Jack Win and Miss Nora Windle.
 8.39 p.m.—Pianoforte solos by Miss Mollie Jones.
 8.45 p.m.—Address by Professor E. Wood.
 9 p.m.—Weather report.
 9.2 p.m.—Songs by Madame Bennett North.
 9.9 p.m.—Violin solos by Mr. Cecil Berry.
 9.17 p.m.—Songs by Mr. Victor Earle.
 9.24 p.m.—Resume of Programme.
 9.29 p.m.—Sid and Molly Owen and Joyce Slater.
 9.37 p.m.—Mr. Jack Win and Miss Nora Windle.
 9.45 p.m.—Pianoforte solos by Miss Mollie Jones.
 9.52 p.m.—Songs by Madame Bennett North.

3LO, MELBOURNE.

THURSDAY, 15th NOVEMBER, 1928

EARLY MORNING SESSION.

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

MORNING SESSION.

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

RECIPE. RAISIN BREAD.

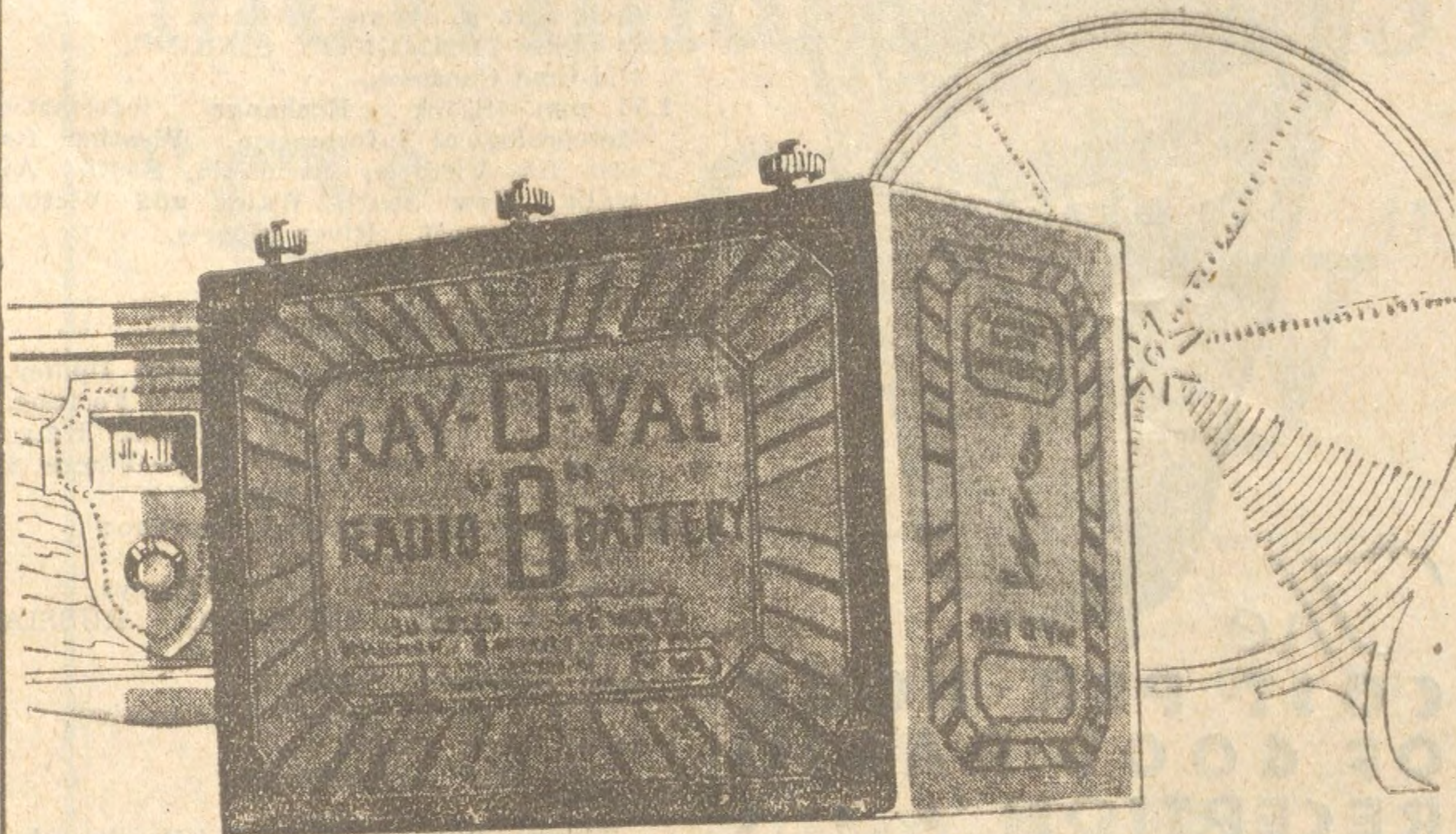
1lb. flour.
 1/2oz. compressed yeast.
 1oz. butter.
 1 1/2oz. sugar.
 1/2lb. raisins.
 3/4 pint warm water.
 Sift and warm flour, make hole in middle, crumble yeast, sprinkle half tea spoonful sugar, add 2 tablepoons warm water, and make batter by drawing in a little of the flour. Cover and stand in warm place 16 minutes. Sprinkle raisins and sugar over flour, add butter and warm water and mix into soft dough. Turn on to board, knead, put back into basin, cover and stand until it doubles itself. Cut into two. Shape the loaves, and put into warm greased tins. Stand again until light and bake in hot oven.

11.5 a.m.—J. HOWLETT ROSS will speak on "Beauty of Face."
 11.20 a.m.—Musical interlude.
 11.25 a.m.—MATRON MORELAND will speak on "Mothercraft."
 11.40 a.m.—Musical interlude.
 11.45 a.m.—MRS. HENRIETTA C. WALKER
 The Art of Being a Settler—"Getting Ready for Christmas"—Some Easy Gifts

MIDDAY SESSION.

Announcer Maurice Dudley.
 Accompanist Agnes Fortune.
 12 noon.—Melbourne Observatory Time Signal. Express train information.
 12.1 p.m.—Prices received by the Australian Mines and Metals Association from the London Stock Exchange this day. British official wireless news from Rugby. Reuter's and the Australian Press Association cables. "Argus" news service.
 12.15 p.m.—Newmarket stock sales. Special reports by John McNamara and Co.
 12.20 p.m.—COMMUNITY SINGING, transmitted from the Town Hall, Melbourne. OLD-TIME CHORUSES.
 Conductor, Frank Hatherley.
 12.20 p.m.—THE RADIO-ACES:
 "The Riff's Song" (Romberg).
 "The Desert Song Waltz" (Romberg).
 "One Alone" (Romberg).
 12.29 p.m.—COMMUNITY SINGING, OLD-TIME CROUSES.
 12.44 p.m.—SUNDOWNERS' QUARTETTE:
 "Querida" (Simon).
 "Sing a Song of Sixpence."

At Farmer's—the newest in Radio!



Inspect at Farmer's—

"RAY-O-VAC"

gives longer life—better reception

This type of battery is specially constructed to give longer life—better reception—better radio entertainment, in loud-speaker sets of two or more valves. The secret of its superiority is this—a new design *entirely eliminating internal short circuits*. All active elements produce current with *all their energy*. There is no waste. Hence the battery lasts longer.

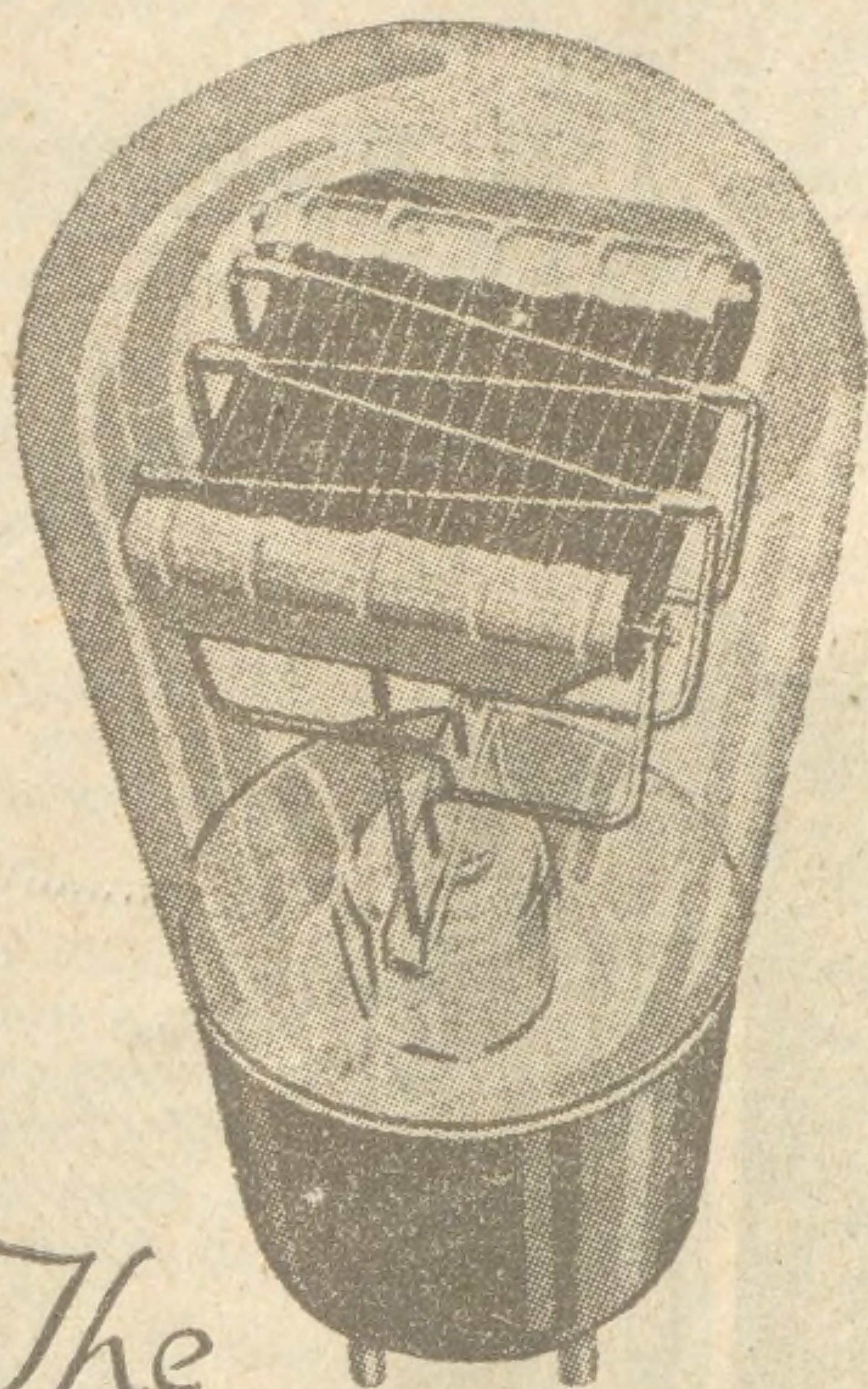
More than this, while it does last—even then—all other similar units are eclipsed because the "Ray-O-Vac" has such a low internal resistance; preserving this, even when nearly worn out; the result is that distortion never ensues.

So that, not only do you improve reception, but you also "cut the cost" of operating. Give the "Ray-O-Vac" a trial, then. Inspect it at Farmer's. For 45 volts power, the prices are: Large capacity, 23/6. Heavy duty, 28/6.

Wireless Department, First Floor

FARMER'S

PITT, MARKET & GEORGE STS., SYDNEY



The COST PER HOUR OF GOOD RADIO RECEPTION . . .

It all depends on the valves you use. Most of them look the same from the outside—it's the inside that counts. Mullard valves—the only valves containing the wonderful P.M. Filament—ensure the finest reception of which your set is capable at the lowest maintenance cost.

It stands to reason—they cost no more to buy, they consume only .075 amps, their gigantic emission surface gives maximum power and purity and they last for years.

Every radio dealer in Australia stocks Mullard Master Valves—the all-British Valve with the wonderful P.M. Filament.

Mullard

THE MASTER VALVE

D

- 12.51 p.m.—EDWARD GOLL, piano:
"Rondo" (Hummel).
"Scherzo" (Mendelssohn).
"Caprice Espagnol" (Moskowski).
1.6 p.m.—COMMUNITY SINGING.
Old-time Choruses.
1.21 p.m.—THE RADI-O-ACES:
"A Medley of Popular Choruses."
Request items.
1.30 p.m.—SUNDOWNERS' QUARTETTE:
"Ye Banks and Braes" (Burns).
"Ain't It a Shame?" (Gall).
1.37 p.m.—COMMUNITY SINGING.
Old-time Choruses.
1.55 p.m.—Stock Exchange information.
Meteorological information. Weather forecast for Victoria, Tasmania, South Australia, New South Wales and Victoria.
Ocean forecast. River reports.
2.5 p.m.—Close down.

AFTERNOON SESSION.

- Announcer Maurice Dudley.
Accompanist Agnes Fortune.
2.15 p.m.—THE STATION ORCHESTRA:
Suite from "The Fairy Play—Where the Rainbow Ends" (Quilter).
2.25 p.m.—MARIE MAGAN, soprano:
"Armida's Garden" (Parry).
"The Little Man in Grey" (Parry).
2.32 p.m.—THE IMPERIAL RUSSIAN TRIO:
John Berzinsky, 'cello:
"Chant de Menestrel" (Glazouniw).
Arved Norit, violin:
"Menuetto" (Paderewski).
The Trio:
"Songs Without Words" (Mendelssohn).
2.47 p.m.—MYRTLE WALSGOTT, contralto:
"The Linden Tree" (Schubert).
"Wandering" (Schubert).
2.54 p.m.—THE STATION ORCHESTRA:
"Festival March" (Mendelssohn).
"Romance" (Karganoff).
3 p.m.—DR. LOFTUS HILLS:
"Topics of the Week."
3.15 p.m.—FRITZ HART will speak to Students of Music.
3.30 p.m.—REV. WILLIAM BOTTOMLEY will speak on:
"Gulliver's Travels" (Dean Swift).
3.45 p.m.—THE STATION ORCHESTRA:
"Liebeslied" (Kreisler).
"March of the Dwarfs" (Moszkowsky).
3.55 p.m.—MARIE MAGAN, soprano:
"O, That it Were So" (Bridge).
"Music When Soft Voices Die" (Besley).
4.2 p.m.—PERCY CODE, trumpet:
"Love's Old Sweet Song" (Molloy).
4.7 p.m.—THE STATION ORCHESTRA:
"Mademoiselle Kiki" (Rawlinson).
"Melodie" (Tchaikowsky).
4.17 p.m.—MYRTLE WALSGOTT, contralto:
"The Heart Worships" (Holst).
"Let Us Forget" (White).
4.24 p.m.—THE STATION ORCHESTRA:
"Floods of Spring" (Rachmaninoff).
4.30 p.m.—"Herald" news service.
Stock Exchange information.
4.45 p.m.—EVENSONG, transmitted from the St. Paul's Cathedral, Melbourne.
5.30 p.m.—Acceptances for the Caulfield Races on Saturday.
5.35 p.m.—Close down.

EVENING SESSION.

- 6 p.m.—Answers to letters and birthday greetings by "BOBBY BLUEGUM."
6.25 p.m.—Musical interlude.
6.30 p.m.—"BOBBY BLUEGUM" and his Little Passengers are off on their Travels again.
6.45 p.m.—"BOBBY BLUEGUM" will sing you some little songs.

EVENING SESSION.

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

- bit prices. River reports. Market reports by the Victorian Producers' Co-operative Company, Ltd. Poultry, grain, hay, straw, dairy produce, potatoes and onions. Market reports of fruit by the Victorian Fruiterers' Association. Retail prices. Wholesale prices of fruit by the Wholesale Fruit Merchants' Association. Citrus fruits.
7.43 p.m.—Birthday greetings.
7.45 p.m.—OUT OF THE PAST.
7.46 p.m.—HARVEY ADAMS, now appearing at King's Theatre, will speak from his dressing room (by permission of J. C. Williamson, Ltd.).
8 p.m.—A MAKER OF HISTORY.
Programme announcements.
8.1 p.m.—ROD MCGREGOR will speak on "Cricket."
8.10 p.m.—The Right Honorable STANLEY M. BRUCE, Prime Minister of Australia, will speak from the Picture Theatre, Box Hill.
10 p.m.—Simultaneous Broadcast with Station 3AR.
11.40 p.m.—Close down.

3AR, MELBOURNE.

THURSDAY, 15th NOVEMBER, 1928.

MORNING NEWS SESSION.

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

MORNING MUSICAL SESSION.

- Announcer JOHN STUART.
Accompanist VERA BUCK.
11 a.m.—Radi-O-Aces:
"Without You, Sweetheart" (De Silva).
"Lolita" (Stoneham).
"After My Laughter Came Tears" (Tobias).
"Beautiful" (Sharp).
11.15 a.m.—Archie and Wattie:
Jovial Jottings.
11.22 a.m.—Radi-O-Aces:
"That's My Mammy" (Donaldson).
"Honeymoon Cottage" (Lumsdaine).
"Together" (Brown).
"Mary Ann" (Davis).
11.37 a.m.—Jessie Batchelor, contralto:
"Carillion" (Martin).
"Can't Remember" (Goatley).
11.44 a.m.—Radi-O-Aces:
"The Riff Song" (Romberg).
"Chinatown" (Yvain).
"What Was I To Do" (Reid).
"Next to You I Like Me Next to You."
12 noon.—James Scott, baritone:
"In Sheltered Vale" (German).
"The Ballad Monger" (Easthope Martin).
12.7 p.m.—Radi-O-Aces:
"Shake It Down" (Williams).
"Lonely Acres" (Robinson).
"Anything Yo Say" (Donaldson).
"In a Bamboo Garden" (Donaldson).
12.22 p.m.—British Official Wireless.
Announcements.
12.32 p.m.—Archie and Wattie:
Pithy Pleasantries.
12.39 p.m.—Radi-O-Aces:
"Down in Old Havana Town" (Cadser).
"Hugs and Kisses" (Alter).
"Egypt" (Seamon).
12.49 p.m.—James Scott, baritone:
"The Little Fisherman" (Lane).
"What the red-haired bo'sun said" (Harrhy).
12.56 p.m.—Radi-O-Aces:
"All Day Long" (Cross).
"Got a Big Date" (Tobias).
"Sunshine" (Berlin).
"Guatemala Melody" (Wenrich).
1.10 p.m.—Jessie Batchelor, contralto:
"Rose of my heart" (Lohr).
"Li there, my lute" (McCunn).

1.17 p.m.—Radi-O-Aces:
 "Lauretta" (Lewis).
 "Adoree" (Silver).
 "You've got to learn to smile" (O'Hagan).
 1.30 p.m.—Close down.

EVENING SESSION.

5 p.m.—A recital of the World's Masters.

NIGHT SESSION.

8 p.m.—Under the auspices of the Health Association:
 F. H. Gaunson: "Teeth and General Health."
 8.15 p.m.—Under the auspices of the Royal Life Saving Society:
 A. T. Newey: "Learning to Swim."
 8.30 p.m.—Radi-O-Aces:
 "On the Air" (Goldman).
 "Harvest Moon" (Bayes).
 "That's My Mammy" (Donaldson).
 8.39 p.m.—Archie and Wattie:
 Cheery Chuckles.
 8.42 p.m.—Radi-O-Aces:
 "In a Honeymoon Cottage" (Lumsdaine).
 "Do You" (Piantadosi).
 "Dear on a Night Like This" (Conrad).
 8.51 p.m.—Julia Russell, soprano:
 "Indian Love Call" (Friml).
 8.54 p.m.—Radi-O-Aces:
 "Why Can't You Care" (Gilbert).
 "How Long Has This Been Going On" (Welding).
 "It Don't Do Nothin' but Rain" (Cook).
 9.3 p.m.—Frank Harwood, character vocalist (by permission of Tivoli Theatres Ltd.):
 Selected numbers.
 9.6 p.m.—Radi-O-Aces:
 "You're a Real Sweetheart" (Friend).
 "Dusky Stevedore" (Razalf).
 "Beside a Lazy Stream" (Stsept).
 9.15 p.m.—Alan Adcock, entertainer:
 "Italiano" (Weston and Lee).
 9.18 p.m.—Radi-O-Aces:
 "Mary Ann" (Davis).
 "Some One is Losin' Susan" (Myer).
 "Afraid" (Barnie).
 9.27 p.m.—Archie and Wattie:
 Stray Sunbeams.
 9.30 p.m.—Radi-O-Aces:
 "Evening Star" (Turk).
 "Hallelujah" (Youmans).
 "Just Like a Melody" (Donaldson).
 9.39 p.m.—Julia Russell, soprano:
 "Song of India" (Rimsky-Korsakof).
 9.42 p.m.—Radi-O-Aces:
 "Chiquita" (Wayne).
 "Hot Ivories" (Sinastra).
 "There Ought to be a Law Against That" (Friend).
 9.51 p.m.—Frank Harwood, character vocalist:
 Selections from his Repertoire.
 9.54 p.m.—Radi-O-Aces:
 "Sunshine" (Berlin).
 "Rain" (Ruby).
 "Mine, All Mine" (Ruby).
 10.3 p.m.—Alan Adcock, entertainer:
 "Ann and Her Little Sedan" (Ager).
 10.6 p.m.—Radio-O-Aces:
 "Lonesome in the Moonlight" (Russell).
 "The Man I Love" (Gershwin).
 "Was It a Dream" (Boutt).
 10.15 p.m.—Archie and Wattie:
 Facetious Flutterings.
 10.18 p.m.—Radi-O-Aces:
 "Gotta Big Date" (Tobias).
 "Pardon the Glove" (Quicksell).
 "Henry's Made a Lady out of Lizzie" (O'Keefe).
 10.27 p.m.—Julia Russell, soprano:
 "A Hundred Moonlit Miles Away" (H. Ivey).
 10.30 p.m.—Radi-O-Aces:
 "Beautiful" (Gillespie).
 "After My Laughter Came Tears" (Shay).
 "The Dance of the Blue Danube" (Fisher).
 10.39 p.m.—Alan Adcock, entertainer:
 "Down at Mulligan's Picture Show" (Weston and Lee).
 10.42 p.m.—Radi-O-Aces:
 "Linger Longer Lane" (Laurence).
 "Is It Gonna be Long" (Whiting).
 "Ice Cream" (Johnson).
 10.50 p.m.—"Age" News Service, exclusive to 3AR.
 10.58 p.m.—Weather Forecast.
 10.59 p.m.—Our Australian Good-night Quote.
 11 p.m.—"God Save the King."

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Yours faithfully,

(Signed) T. H. McWILLIAMS,

Wireless Operator, Southern Cross.

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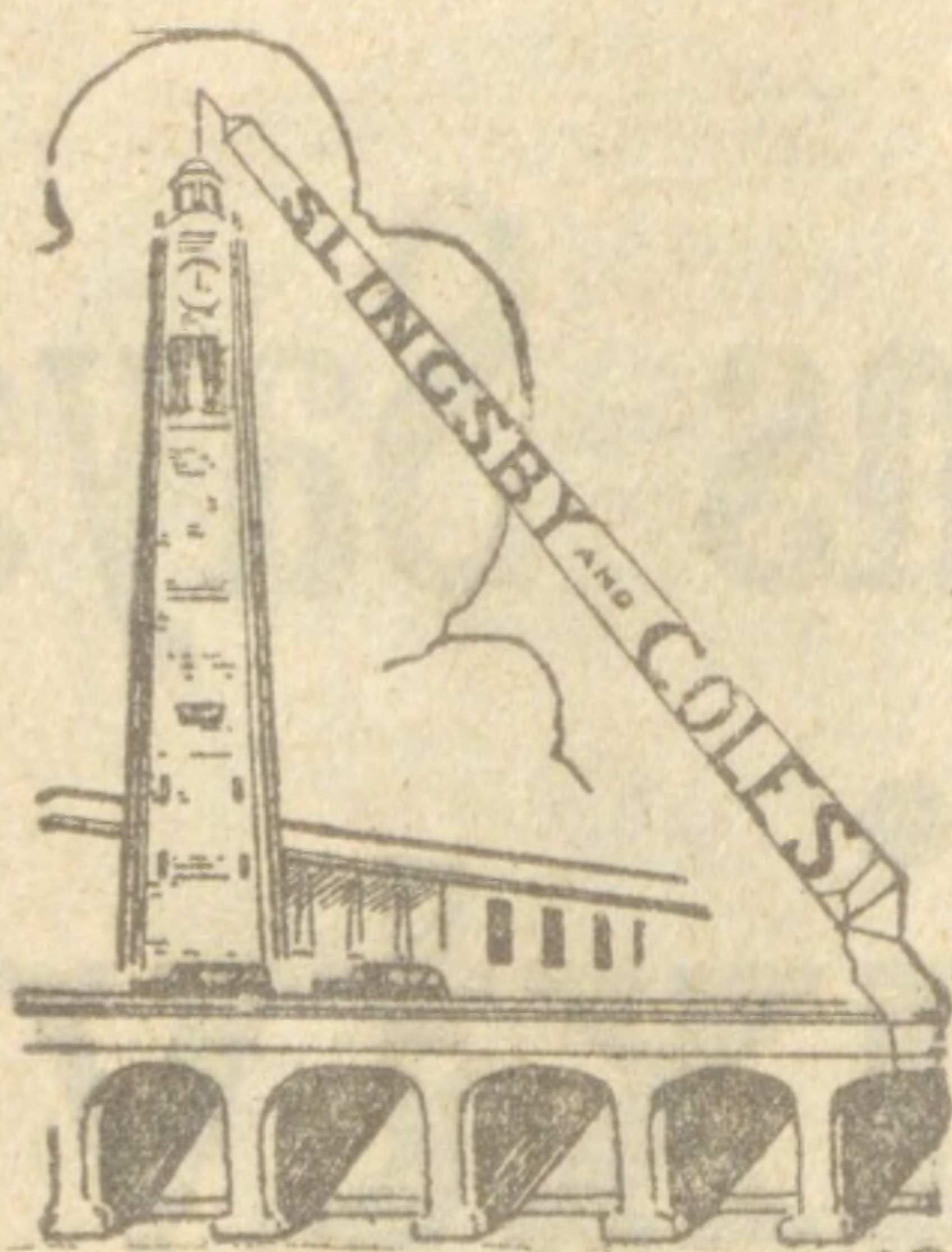
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4QG, BRISBANE.

THURSDAY, 15th NOVEMBER, 1928.

EARLY MORNING SESSION.

8.0 a.m.—This Morning's News Supplied by
courtesy of the Brisbane Metropolitan Daily
Newspapers.

8.30 a.m.—Close Down.

MORNING SESSION:

11.0 a.m. to 12 noon.

MIDDAY SESSION.

1.0 p.m.—Market Reports and Weather Infor-
mation.

1.15 p.m.—A Lunch Hour Address.

1.58 p.m.—Time Signals.

2.0 p.m.—Close Down.

AFTERNOON SESSION.

3.0 p.m.—A Programme of Electrically Re-
produced Records.

3.30 p.m.—Mail Train Running Times.

4.15 p.m.—This Afternoon's News.

4.30 p.m.—Close Down.

EARLY EVENING SESSION.

6.0 p.m.—Mail Train Running Times; Mail
Information; Shipping News.

6.5 p.m.—Dinner Music.

6.25 p.m.—Commercial Announcements.

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

7.0 p.m.—News in Brief.

7.5 p.m.—Stock Exchange News.

7.6 p.m.—Metal Quotations.

7.7 p.m.—Market Reports.

7.25 p.m.—Fenwick's Stock Report.

7.30 p.m.—Weather Information.

7.40 p.m.—Announcements.

7.43 p.m.—Standard Time Signals.

7.45 p.m.—Lecture: A Talk on Books by
Mr. J. Doyle (McLeods).

NIGHT SESSION.

A Programme Arranged by Mr. Erich John.
8.0 p.m.—From the Studio:

Group I.—Grand Opera:

Instrumental Quartette:

"March" (from "Aida"—Verdi).

Will H. Lister:

A Thought for To-night: "The Light and
the Darkness."

Double Quartette:

"The Harvest Home" (from "Marriage
of Figaro"—Mozart).

Stanley Tambllyn (bass-baritone):

"She Alone Charmeth My Sadness" (from
"Queen of Sheba"—Gounod).

Mrs. Robert Bell (Soprano):

"Michaela's Song" (from "Carmen"—
Bizet).

Double Quartette:

"Anvil Chorus" (from "The Troubadour"—
Verdi).

Instrumental Quartette:

"Pastoral Dance" (from "Nell Gwyn"—
German).

8.20 p.m.—Group II.—Italian Folk Songs:

Mildred Bell (Contralto), and Stanley
Tambllyn (bass-baritone):

Vocal Duet, "Tiritomba."

Double Quartette: "Santa Lucia."

Muriel McHugh (Soprano):

"O Lowly Window."

Double Quartette: "Funiculi Funicula."

Instrumental Quartette:

"Serenade" (from "Millions of Arlequin"—
Drigo).

8.40 p.m.—Group III.—Sacred:

Double Quartette:

"Take Thou My Hand" (arr. by Erich
John).

George Williamson (tenor):

"Ave Maria" (Cooper).

Mrs. Robert Bell (Soprano), and Miss Mil-
dred Bell (Contralto):Duet, "O Master, Let Me Walk With
Thee" (Ambrose).

Double Quartette:

"Benedictus" (Erich John).

Instrumental Quartette:

"Cavatina" (Raff).

9.0 p.m.—Group IV.—Classical:

Tom Ryan (Bass):

"Where Art Thou" (from "Rodelinde"—
Handel).

Double Quartette:

"The Victor's Return" (Mendelssohn).

Misses. Mildred Bell and Audrey Bell (Con-
tralto):

"Autumn Song" (Mendelssohn).

Male Quartette:

"Desire of Spring" (Mozart).

Instrumental Quartette:

"March Militaire No. 1" (Schubert).

9.20 p.m.—Group V.—Miscellaneous:

Mildred Bell (Contralto), and George Wil-
liamson (tenor):

Duet, "Pierrot, Pierette" (Linne).

Double Quartette:

"O, Dear, Oh!" (plantation song).

George Williamson and Jack Lord (tenor):

Duet, "Old Man Moon" (Hill).

Mrs. Robert Bell (soprano):

"Petticoat Philosophy" (Andrews).

"Moon Marketing" (Corbett).

Stanley Tambllyn (bass-baritone):

"The Lost Chord" (Sullivan).

Instrumental Quartette:

"The Swan" (Saint Saens).

9.40 p.m.—Group VI.—Light Opera:

Double Quartette:

"In England" (from "Merrie England"—
German).

Mildred Bell (contralto):

"A Dance for Jack" (from "The Country
Girl"—Monckton).

Double Quartette:

"Under the Pump" (from "Dorothy"—
Cellier).

Instrumental Trio:

"Country Dance" (from "Nell Gwyn"—
German).10.0 p.m.—Late News; Weather News; Close
Down.

7ZL, HOBART

THURSDAY, 15th NOVEMBER, 1928.

MIDDAY SESSION.

11.30 a.m.—M'elie Columbia Broadcasts.

11.34 a.m.—Special Midlands Weather Fore-
cast.

11.35 a.m.—M'elie Columbia Broadcasts.

11.55 a.m.—Tasmanian Stations 9 a.m. Wea-
ther Report.

12 noon.—G.P.O. Clock chimes the hour.

12.1 p.m.—Shipping information. Ships within
wireless range. Mail notices. Commercial
news. Housewives' guide.

12.8 p.m.—M'elie Columbia Broadcasts.

12.11 p.m.—British Official Wireless News.

12.20 p.m.—M'elie Columbia Broadcasts.

12.29 p.m.—Announcements.

12.33 p.m.—M'elie Columbia Broadcasts.

12.55 p.m.—"Mercury" news service.

Produce Auction Sales held at Railway.

1.10 p.m.—M'elie Columbia Broadcasts.

1.30 p.m.—Close down.

2.15 p.m.—Running description of Trial
Hurdle Race, 2 miles, run at Mornington,
Victoria.

2.20 p.m.—Close down.

2.45 p.m.—Running description of Maiden
Plate, 6 furlongs, run at Mornington, Vic-
toria.

2.50 p.m.—Close down.

AFTERNOON SESSION.

3 p.m.—Selections by the Melody Master.

3.15 p.m.—Running description of Mornington
Handicap, 9¼ furlongs, run at Mornington,
Victoria.

3.20 p.m.—Weather Forecast.

3.21 p.m.—Selections by the Melody Master.

3.45 p.m.—Running description of Trial Handi-
cap, 6 furlongs, run at Mornington, Vic-
toria.

3.50 p.m.—Selections by the Melody Master.

4.15 p.m.—Running description of Novice
Handicap, 5 furlongs, run at Mornington,
Victoria.

CHILD WELFARE.

- 4.20 p.m.—A Talk by a Representative of the Child Welfare Association:
"Every Baby's Needs."
4.35 p.m.—Selections by the Melody Master.
4.45 p.m.—Running description of Welter Handicap, 7 furlongs, run at Mornington, Victoria.
4.50 p.m.—Close down.

EARLY EVENING SESSION.

CHILDREN'S HOUR.

- 6.15 p.m.—Selections by the Melody Master.
6.45 p.m.—A Story told by the "Storey Lady":
"Something."
7 p.m.—Answers to Letters and Birthday Greetings.
7.5 p.m.—Selections by the Melody Master.
7.15 p.m.—"Mercury" special Tasmanian Service. Railway Auction Produce Sales held at Railway. Weather information. Hobart Stock Exchange quotations.

EVENING SESSION.

- 7.30 p.m.—Come to Tasmania.
Under the auspices of the "Come to Tasmania" Association, E. Sorell will speak on:
"Rowing."
7.45 p.m.—W. H. Clemes will speak under the auspices of the 7ZL and "Mercury" Hospital Appeal for Wireless Equipment for the General Hospital, Hobart:
"Happiness and Health."
8 p.m.—G.P.O. Clock chimes the hour.
8.1 p.m.—Acknowledgment of 7ZL and "Mercury" Appeal for Wireless Equipment of Hobart General Hospital. Senior Birthday Greetings.

FIFTY YEARS AGO.

1769—Cook took possession of New Zealand.
7ZL OLD-TIME DANCE NIGHT.

- 8.6 p.m.—Transmission from Continental:
The 7ZL Alla Polacco Orchestra:
Waltz, "The Merry Widow" (Lehar).
Mary Green and Rene Dyer:
"Down the Vale."
The 7ZL Alla Polacco Orchestra:
Lancers, "Songs of the Soldier."
Mary Green, soprano:
"Love's Old Song."
The 7ZL Alla Polacco Orchestra:
Two Step, Deham" (Conway).
Rene Dyer, contralto:
"The Banks of Allan Water."
The 7ZL Alla Polacco Orchestra:
Polka, "Dxie" (Rolfe).
Cheerios to Friends far and near, especially those at Boobyalla, King Island, Swansea, Interlaken, Mangana, Anderson's Bay, Eaglehawk Neck, Taroon, Snug, Maatsuyker Island, Elderslie, Waddamana, Lighthouse at Swan Island.

FROM THE FROZEN SOUTH.

Re-broadcast of Concert and Talk on the flight of Sir George Wilkins—transmitted on short wave from S.S.N.T. Nielson Alonso, the whaler stationed amongst the ice packs in the Ross Sea near the South Pole.

FROM THE CONTINENTAL.

- Mary Green and Rene Dyer:
"In the Dusk of the Twilight."
The 7ZL Alla Polacco Orchestra:
Barn Dance, "Rinking" (Poole).
Mary Green, soprano:
"Ye Banks and Braes."
The 7ZL Alla Polacco Orchestra:
Alberts, "Happy Darkies" (Kennedy).
Rene Dyer, contralto: Selected.
The 7ZL Alla Polacco Orchestra:
Waltz, "Old Sweet Story" (Clifford).
Mary Green and Rene Dyer:
"My Old Kentucky Home."
The 7ZL Alla Polacco Orchestra:
Waltz (Leap Year), Selected.
9.50 p.m.—From the Studio:

NEWS SESSION.

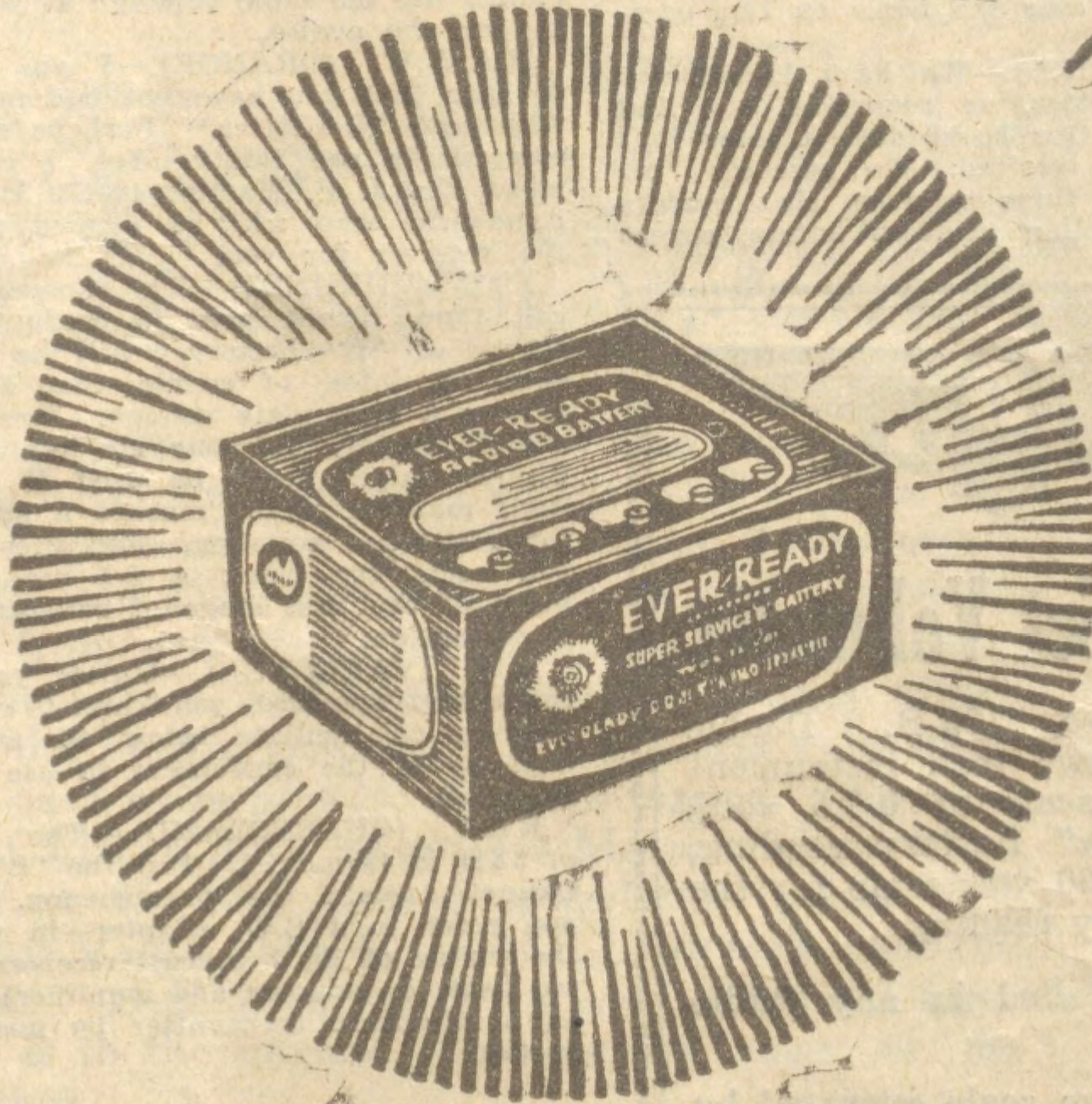
- British Official Wireless News, "Mercury" special Tasmania News Service. Tasmanian District Weather Report.
10 p.m.—G.P.O. Clock chimes the hour.
"God Save the King."
Close down.

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WE1

Readers' Queries Answered

GENERAL.—Experimental station 2NO, operated by the Technical Editor of "Wireless Weekly" and "Radio," is at present carrying out preliminary tests on the 200-240 metre waveband. The present wavelength is 220 metres. No regular times of transmission will be adhered to until tests are complete. Listeners are invited to send reports giving details of reception of speech and music. These transmissions at present take place most evenings after 11 p.m., Sydney time and on most Sunday evenings after 10.15 p.m. It is hoped later to transmit technical data and Morse-code practice for those who desire to "swot" the A.O.P.C., subject to permission. If possible, where desired, a number of queries will be answered over the air, but such transmissions are at present only suggestions which require various considerations.

N. J. JONES, of Ellis Street, Stones' Corner, Brisbane, writes: "I would like to hear from anyone who has built the Marco Special, using the Pentatron T.K.D. valve, which appeared in "Wireless Weekly," 16th March, 1928; the Marco Four, "W.W.," November 4th, 1927, and the One Control Marco Four, "W.W.," Feb. 3rd, 1928. I have a Wave-trap Three Valve Renartz, which appeared in "W.W.," May 13th, 1927. My list of stations with it follows: 4QG, 4GO, 4CG, 4RM, 4MW, 4MF, 4WI, 2FC, 2BL, 2KY, 2UE, 2GB, 3LO, 3AR, 3BY, 3SW, 3UZ, 5CL. I might mention 3BY and 3UZ have been heard on the loud-speaker all over the home on two occasions."

A.E.F. (LISMORE).—We have hunted for your previous letter, as requested, but find no trace of it. Our books do not show that the letter was received. We recently requested, through these columns, that readers writing us regarding previous letters, repeat

their query. As you have not done this, afraid we cannot help you till you write again, giving us particulars. How long does the "B" battery last? Are you using sufficient grid bias? What type valves are you using, and what type batteries?

H.T.T. (KOGARAH).—(1) The Gloomchaser Five may be used in conjunction with the Emmco "B" Eliminator.

(2) Yes, providing you use four volt valves.

(3) Yes, these will be quite O.K.

A.C. (DAWES POINT).—The valve is probably faulty. Use Philips transformers, it will be worth the extra expense.

H.A.T. (NEUTRAL BAY).—The price of Philips' Trickle Charger is £3/10/-. They may be obtained from any of our advertisers.

(2) Get in touch with Amalgamated Wireless, Ltd., Sydney.

S.B. (ARNCLIFFE).—Sorry we have no copies left of the Three Valve Browning Drake Receiver. However, a Four Valve Browning Drake was published in November "Radio," 1927, and this could be made up less one stage of audio. I am sorry, but we cannot compare manufacturers' circuits between those published in these columns, for obvious reasons.

E.G. (STOCKINBINGAL).—The .25 fixed condenser is quite O.K. Try using a higher voltage on the Screen grid valve. For best results use the same voltage as you are placing on the audios.

H.A.W.W. (ORANGE).—I am very sorry to hear that you have not had much success with your "Go-Getter." Perhaps some of the components are faulty. Yes, I can recommend Mr. J. B. Martin, 48 St. Mark's Road, Randwick, who will be pleased to overhaul the receiver for you.

XYZ (QUIRINDI).—Try Cossor valves, 4 volt type. These, used in conjunction with plenty of "B" battery, will be O.K. This does not infer, of course, that these valves require a high plate voltage. You should use a "C" battery in your six valve receiver. Philips valves could be used if so desired. Both manufacturers market a special valve for resistance coupling. For greater volume you could try using a 5-1 transformer in place of the first stage of resistance coupled amplification.

D.W. (VAUCLUSE).—Unless you use the condensers specified you cannot expect your receiver to oscillate below 80 metres. The capacity of the condensers in use by you is incorrect.

R.H.F. (QUEENSLAND).—The wavelength of 3XN is 48 metres. Test the "B" batteries. Cannot explain the phenomenon. Perhaps you refer to a S.W. adapter—in which case the wiring of the broadcast receiver (if placed too near the adapter and amplifier) would act as a miniature transmitter by means of induction.

W.E.P. (WILLOUGHBY).—The information offered is too meagre for us to offer a solution. All you tell us is that your receiver will not operate. Suggest you get a friend who understands radio enough to look over the set, and if he cannot find the fault, perhaps he can give us a detailed description of the symptoms.

T.J.B. (COOGEE).—To be perfectly frank with you, we must state that (judging by the circuit diagram forwarded, and your own admission—"This is the best I can do") you have not sufficient knowledge of radio circuits to construct the five valve receiver from a diagram. The first valve is the 1st stage of radio, the next is the 2nd stage of radio, the next is the detector, which is followed by the first stage of audio, and finally the last audio valve. This receiver has no reaction. As no details of the parts used were contained in your letter, we cannot advise you regarding selectivity, which is probably a matter of adjustment to the coils. Sorry we have no Neutrodyne circuits left.

E.T. (KENSINGTON).—We have returned your postal note for 5/-. Payment is not required for replies to queries through these columns. The three fixed condensers of .0003 mfd. are unnecessary, and the circuit is incorrect throughout. Only one grid leak is required, i.e., a 2 meg. leak in the detector stage. It would be necessary to use rheostats to control the filament of each R.F. valve and that of the detector. Only one R.F. choke should be used, and this should be placed in the plate lead of the last valve, working on your circuit. There are no valves with a filament consumption of only .006 amp. You probably mean .06 amp., in which case Philips valves may be used throughout. Grodan spaced formers would be suitable. The receiver would be difficult to control and hard to balance. Suggest you build something less complicated.



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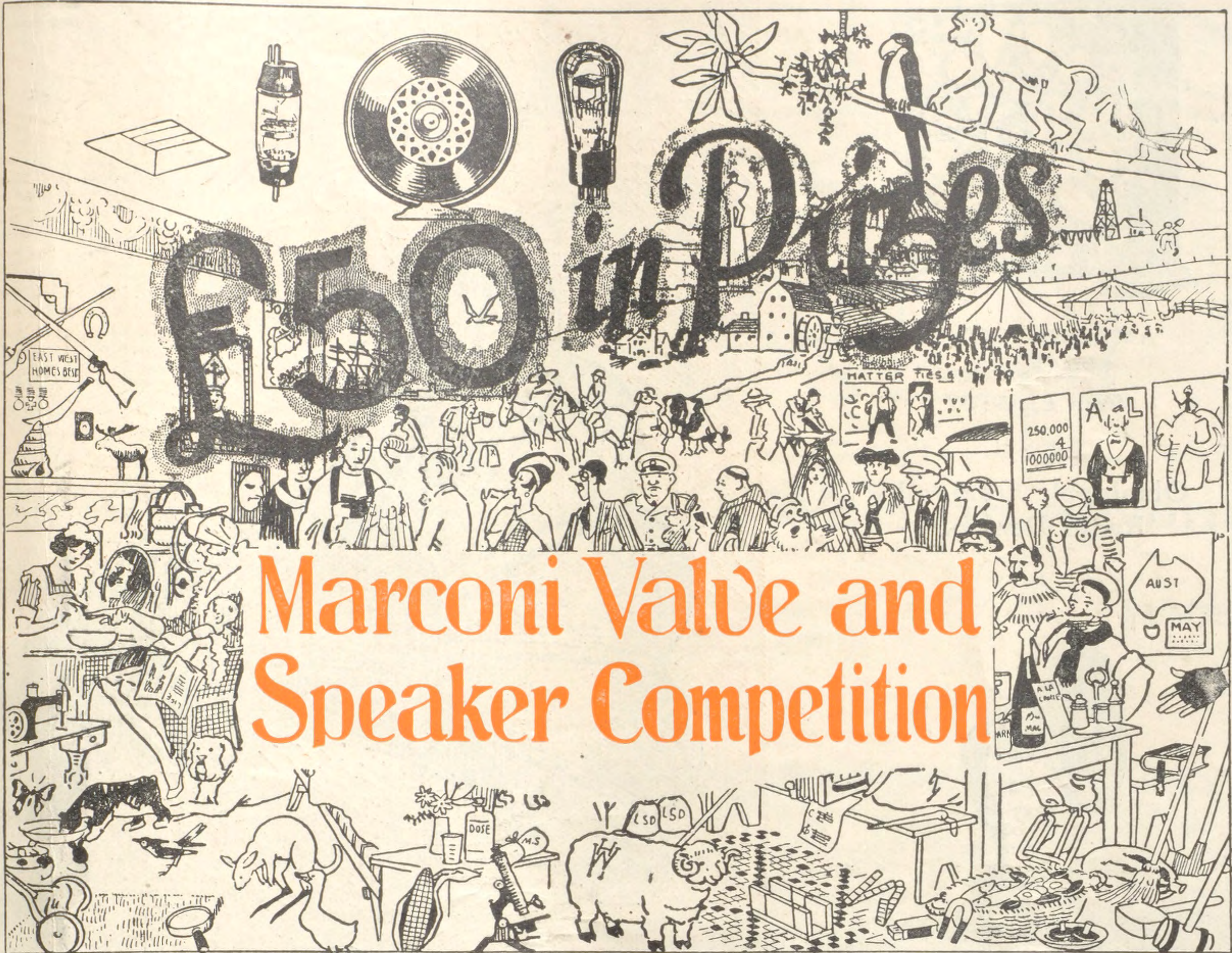
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Marconi Valve and Speaker Competition

The competition is open to every reader of this journal. The illustration shown here contains many articles and objects, the names of which begin with the letter M. Study the enlarged illustration, which you may obtain free from any city radio dealer, or direct from one of the addresses mentioned below make a list of the names, and forward to the Sydney Office of A.W.A. To the person sending in the greatest number of correct names, a cash prize of £25 will be awarded. There is a second prize of £10, a third prize of a Marconi Cone Loud Speaker, valued at £5, and sixteen consolation prizes of a Marconi Economy Valve (D.E.P. or D.E.L. types) awarded in order of merit. At-of-town readers simply fill in the form below and mail it to the nearest office for a copy of the enlarged illustration.

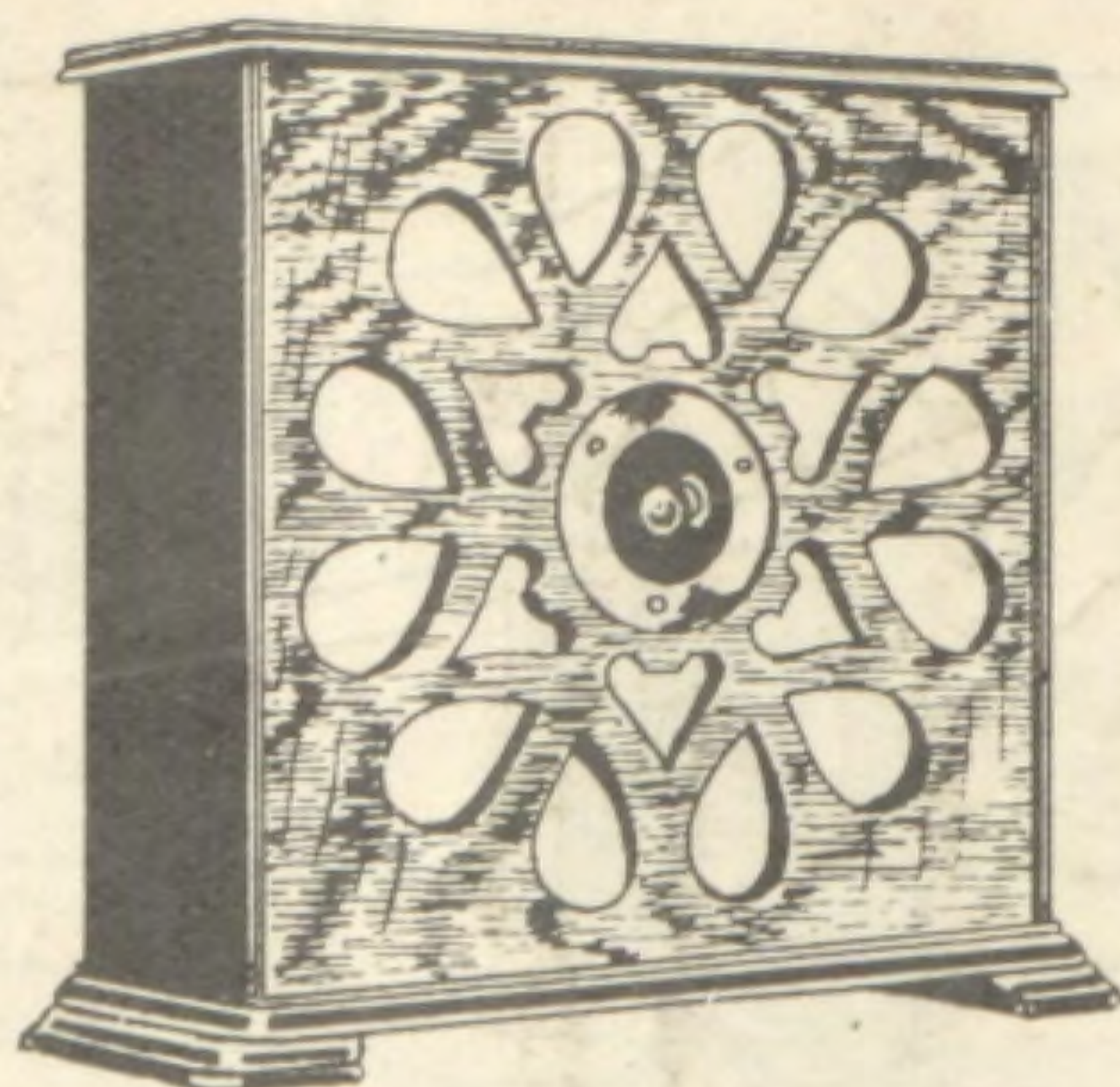
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Wireless House, 167-9 Queen St., Melbourne
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To
Please forward a copy of the Marconi Valve
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Friday, 9th November, 1928.

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