The Broadcaster and Wireless Retailer, February 9, 1935

The

Registered at the G.P.O. as a Newspaper.

PART-EXCHANGE RESALE PRICE LIST

No. 329. Vol. XXVI. SATURDAY, FEBRUARY 9

Incorporating The RADIO TRADE REVIEV

Circulated weekly to the Radio, Music, & Gramophone Industries at 10/6 per annum

LARGEST

NFT SALE

caster

BATTERY CHARGING

A question which largely governs your choice of a new battery charging equipment, is undoubtedly that of the profits to be made. BUT... when considering this point, it is important also to take into account that portion of your profits which must be spent on maintenance, replacements and current consumption.

Model "X" may charge as many batteries as, and yet the initial cost be cheaper than, the Westinghouse Metal Rectifier Charging Set under comparison. But, the Westinghouse plant requires neither attention, nor maintenance, nor are rectifier renewals necessary. The sole cost on your profits is, therefore, that of current consumption: and as this is always in direct proportion to the number of batteries on load, it is as low as possible. Bear this point in mind

Write to Dept. "B" for a copy of "At the Correct Rate."

WESTINGHOUSE BATTERY CHARGERS For Maximum Profit

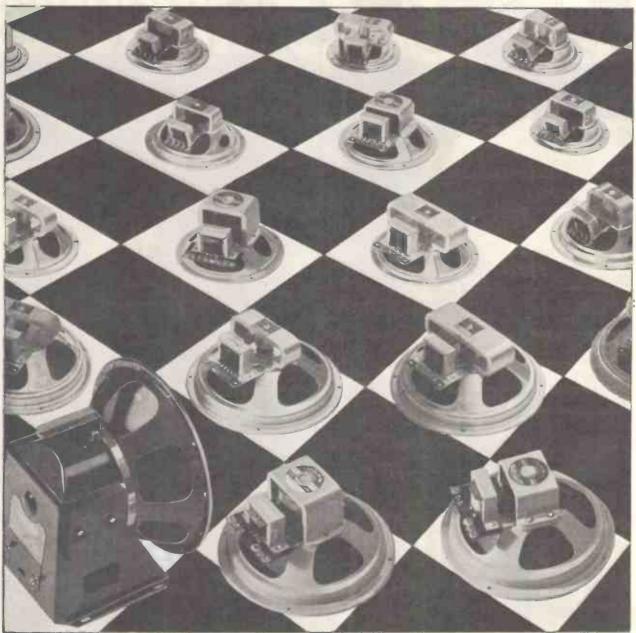
The Westinghouse Brake & Saxby Signal Co., Ltd., 82, York Rd., King's Cross, London, N.1

A 6339



ii

LOUDSPEAKERS



to meet EVERY PROBLEM

For each and every type of set there is a MAGNAVOX Speaker giving better tonal quality, the uniformity which comes from large scale production, and more value for money. MAGNAVOX is the best move! Send for interesting literature.



The Broadcaster and Wireless Retailer

February 9, 1935



Deposit 42/-; 12 monthly payments of 42/- or 24 monthly payments of 21/6.

MADE IN ENGLAND

G. C. RADIO THE SETS WITH THE BIG NAME BEHIND THEM

Advt. of The General Electric Co. Ltd., Magnet House, Kingsway, London, W.C.2 WHEN REPLYING TO ADVERTISEMENTS PLEASE MENTION "THE BROADCASTER." THE NEW

UNING AND

ARKLING

PRODUCTION

TH HIGH NOTE

FINITION AND

ANCED BASS

Shadowband for a company of the state of the

C

Brilliant performance and utmost good value have always been characteristics of G.E.C. Radiograms and made them popular favourites. Now comes the new G.E.C. SHADOWBAND FIVE RADIOGRAM which is even better than any of its predecessors. It is a certain winner from the start and takes its place immediately at the head of all 5-valve superhet radiograms. There is a great demand for radiograms and the new G.E.C. SHADOWBAND FIVE, which will be nationally advertised, offers you the opportunity of maintaining peak sales.

ABRIDGED TECHNICAL DETAILS : New type of Loudspeaker with compensated high note reproduction and balanced bass. Shadowband Tuning. Fully delayed and amplified A.V.C. Inter-station noise suppression. Duo-col full vision illuminated tuning by station names

with light band selector. 3 watts undistorted output. Horizontal tuning controls. Internal aerial. Richly figured Cabinet with new design features.

RELEASE DATE - FEBRUARY 18th

G. C. RADIO THE SETS WITH THE BIG NAME BEHIND THEM

Advt. of The General Electric Co. Ltd., Magnet House, Kingsway, London, W.C.2

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The Broadcaster and Wireless Retailer

SPECIAL PRIVILEGE for "Broadcaster" Subscribers

4

The ordinary subscription to "Electrical Trading" is 7/6d.—truly remarkable value for money. But, by a special arrangement, subscribers to "The Broadcaster," the sister journal, are entitled to receive "Electrical Trading" every month for a year, for the astonishing Privilege Subscription of only 5/-. A single piece of advice from the "Electrical Trading" Advisory Service can repay this small subscription many times over.

HOW this additional Service CANHELPYOU

Below are just a few of the hIghly specialised services which "Electrical Trading" can render you through its board of experts :--

The preparation of all kinds of advertising matter and the planning of displays and exhibitions of electrical goods.

Legal and Insurance problems in their relation to the electrical industry.

Hire purchase practice, staff management, problems of buying and of business organisation.

installation, maintenance, and all matters relating to servicing and technicalities.

Advice on technical books, supply voltages and valuable specialised market data.

Practical help in arranging contacts between manufacturers and dealers.

JUNGING... *a Great New* **FREE PERSONAL ADVISORY SERVICE** "Electrical Trading" invites you to benefit from

45 YEARS OF SPECIALISED EXPERIENCE

As a subscriber to "The Broadcaster" you have probably used and benefited by its remarkable Free Service.

Now, we are able to announce the Important news that "Electrical Trading," our sister publication, has launched a great Free Specialised Advisory Service which can be of immense additional value to your electrical department.

This magnificent, individual Service is the most comprehensive of its kind in the electrical industry. It is presided over by a Service Manager who offers you his personal co-operation in solving scores of urgent business problems. He and his staff of experts are at your beck and call for specialised information and advice which are nowhere else procurable without a substantial fee.

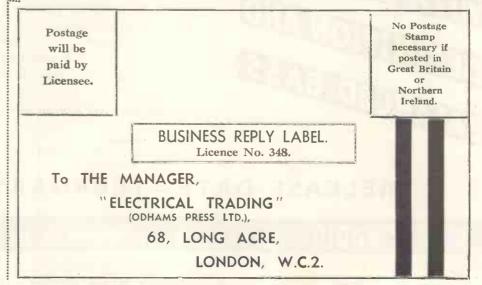
If you sell electrical goods you must read "Electrical Trading" every month and use its profitable service. As a subscriber to "The Broadcaster" you are eligible for a most generous concession—you can have "Electrical Trading" every month for a year and use its Advisory Service Free of charge for the special Privilege Subscription of 5/--(a reduction of 33 per cent.)

Take advantage of this splendid offer now. Put a P.O. for 5/-, together with your business card, in an envelope, paste on the Business Reply Label below, and post (without a stamp) immediately.



'Phone: Temple Bar 2468. Telegrams: Electrical Trading, Southernwood, Rand, London.

CUT THIS LABEL OUT AND AFFIX IT TO A PLAIN ENVELOPE. There is no need for a stamp, we pay postage.



February 9, 1935

9



WHEN REPLYING TO ADVERTISEMENTS PLEASE MENTION "THE BROADCASTER "

10



WHEN REPLYING TO ADVERTISEMENTS PLEASE MENTION "THE BROADCASTER."

really efficient noise suppressor for

н

BROMLEY

"How can I stop those irritating noises?" You're often asked that question. MUM's the word for the cure of Radio disturbances caused by Trains, Trams, Telephones and other electrical devices. MUM is an invention you can confidently recommend, it is neat in appearance, easily fitted and the price is *right* for big sales.

Advertising has started in RADIO TIMES and other journals. Order MUM from your wholesaler, it will pay you to give it a good show.

> Packed in striking Display outers of ½ dozen.

> > PRODUCT OF

GRAHAM FARISH LTP.

KENT

CURES DISTURBANCE IN RECEPTION DUE TO DOMESTIC APPLIANCES TRAINS etc.

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MUMS THE WORD

The Broadcaster and Wireless Retailer

February 9, 1935



RADIO RENTAL THROUGH THE DEALER



What you have been waiting for.

A MARVELLOUS OPPORTUNITY OF ADDING TO YOUR PROFITS

We offer the FAMOUS 'SPOTLIGHT' TUNING RECEIVERS from 10/- per month.

Generous terms given to the dealer.

Write to-day for particulars of our authorised agents' scheme.

REGENT INVESTMENT & SALES, LTD., Brent Crescent, North Circular Road, N.W.10

It's the Oilver jubilee-it's your Jolden opportunity



No larger than an ordinary portable gramophone, this instrument incorporates a Philips all-electric amplifier, and reproduces gramophone records at unusual volume through either one or two moving coil speakers. Output: approx.5 watts undistorted. Electric turntable, pick-up, automatic brake and scratch filter. Magnetic needle chuck which permits the needle to move freely in the record groove. For A.C. Mains. Price complete with separate moving coil speaker 26 Gns. Deferred terms on application. MAKE REAL MONEY BY SELLING PHILIVOX TO HOTELS, RESTAURANTS & BOARDING HOUSES.

Philips Electric Power Gramophone is the ideal. instrument for impromptu dances. It is small in size and finished with exquisite care and it gives unsurpassed reproduction at sufficient volume for large halls. Send us the coupon for full details of this and other models.

PHILIPS PHILIPS PHILIVOX ELECTRIC POWER GRAMOPHONE COUPON Philips Industrial, Philips Lamps Ltd., 145, Charing Cross Road, London, W.C.2. Place and me full particulars and terms for the

Please Philivo					for	the
NAME.	 	 	۹,	 		

ADDRESS.....

В

Silent Service

When we had seemingly so perfected the "Clix" range of Valve Sockets that over 80 per cent. of set manufacturers were using them; when everyone was satisfied that they were the best sockets made and that nothing more could be done to better the design or improve the finish, then, instead of resting on our oars as we might have done, we started a metallurgical research into the character of the brass we had been using to see whether IT might be improved upon

A long series of experiments resulted in the discovery of a new alloy infinitely superior to anything previously employed, and another quality was added to "Clix."

And so this silent service goes on, and set manufacturers secure improved quality without increase in cost. It is, indeed, that Service allied to quality that has especially commended "Clix" to the appreciative regard of the set manufacturer.

We have always extended an invitation to set manufacturers to take the fullest advantage of our specialised experience and to protect their interests by relying upon our ability to meet their heaviest demands at short notice.

Your supplies are further safeguarded for 1935, as we have recently taken over a new factory having 30,000 square feet of floor space which is being devoted to our Radio and Electrical products. Additional and better machinery has been installed and the most modern production methods instituted. Behind all this there still stands our desire to give real service—a service as sincere as ever.

> Full details of the range of "Clix" Valve Sockets and our special Folder "Clix Aids to Manufacturers" will be sent you on request.

> Clix products are fully covered by Patents, Provisional Patents and Registered Designs.



TELEPHONES : VICTORIA 3541-2 & 3516.

PROFIT WORTH WORKING FOR



Whether you want to sell H.T. batteries or not, battery set owners must still have H.T. Why not concentrate your efforts on selling Milnes H.T. Supply Units to them and make a profit of 24/8 or more per sale?

It is easy to sell Milnes Units. You are selling, not just another H.T. battery, but reliability, service performance and economy such as none of your battery set customers has Imagined. The way to sell Milnes Units is to give a demonstration on the customer's own set. No selling effort is needed. The improvement it effects is the most convincing argument. Against that, high price ceases to be a factor.

Some of our dealers sell Units in 75 per cent. of homes in which they demonstrate. If you sell only a dozen a month you have made a clear profit of £15. That's the equivalent of 300 dry battery sales.

Write us now for full details and terms.

We sell direct to the dealer. We maintain prices rigidly and refuse to supply price-cutters.

We give 30 per cent. discount, or 30 per cent. and 5 per cent. for 3 or more Units. We advertise extensively in the national newspapers and refer enquirers to our local agents.

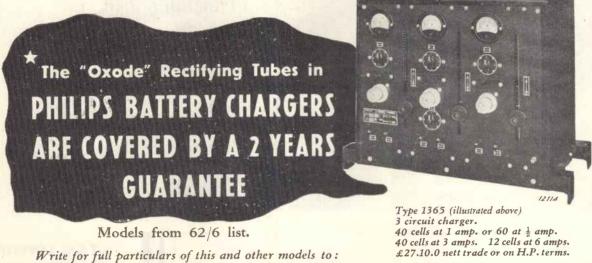
We have already sold approximately 70,000 Units.



CHURCH ST., BINGLEY, YORKS. Telephone : Bingley 600-1-2-3.

WHEN REPLYING TO ADVERTISEMENTS PLEASE MENTION "THE BROADCASTER."

★ REMEMBER THIS FACT WHEN BUYING **BATTERY CHARGING EQUIPMENT**



Philips Lamps Limited, 145, Charing Cross Road, London, W.C.2

Ready Sales!

Because T.M.C.-HYDRA Condensers can be absolutely relied upon for-

HIGH INSULATION RESISTANCE

- ACCURACY
- LONG LIFE
- CONSISTENT PERFORMANCE

-they make quick and easy sales-they are featured by many Set Designers and backed by regular advertising.

Profit from this constant and ever-increasing demand and arrange for stocks TO-DAY.

Watch for announcements of the new Condensers specially prepared for Television requirements.

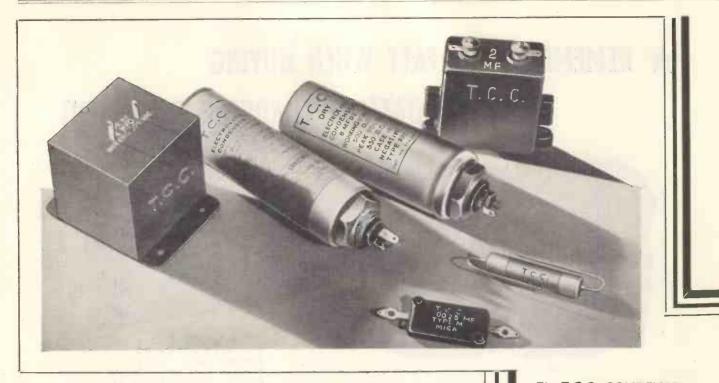
SOLE DISTRIBUTORS :

T.M.C.-HARWELL (SALES) Britannia House, 233 Shaftesbury Avenue London, W.C.2. (A few doors from New Oxford Street)

Telephone : Temple Bar 0055 (3 lines)

T.M.C.-Hydra Condensers are made in England by Telephone Manufacturing Co. Ltd.

WHEN REPLYING TO ADVERTISEMENTS PLEASE MENTION "THE BROADCASTER."



No Matter what your need, or the need of your customers

• the answer is within the T.C.C. organisation. We show but a few of the many types that go to make up the vast T.C.C. range. They are standard types—types which you as a retailer know mean good business. If you are a set manufacturer, many of the T.C.C. 'stock' types meet your requirements if not there is a specialised series — with 28 years' condenser pioneering behind it, ready to meet your very need. And above all, whether specialised or stock, every T.C.C. condenser is a recognised standard of DEPENDABILITY. Can you ignore that claim? Then insist on T.C.C. **always.**



The T.C.C. CONDENSERS

4 mfd. Type 87 Paper Condenser. Tested 1,500v. D.C. Normal Working 450v. Built to withstand surges of 650v.

8 mfd. Type 802 Wet Electrolytic. Maximum Continuous Working Voltage of 440. Peak Voltage of 460.

8 mfd. Type 902 Dry Electrolytic. Maximum Continuous Working Voltage of 500. Peak Voltage of 550.

.0015 mfd. Type "M" Mica Condenser. Tested to 500v. D.C. for 250v. D.C. Working.

.01 mfd. Type 300 Tubular Paper Condenser. Tested to 1,500v. D.C. for 400v. D.C. Working.

2 mfd. Type 50 Paper Condenser. Tested 400v. D.C. Working Voltage of 200 Noninductive.

 Send for the fully illustrated T.C.C.
 Price List – giving complete data, characteristics, sizes, etc.

The Telegraph Condenser Co. Ltd., Wales Farm Road, N. Acton, W.3.





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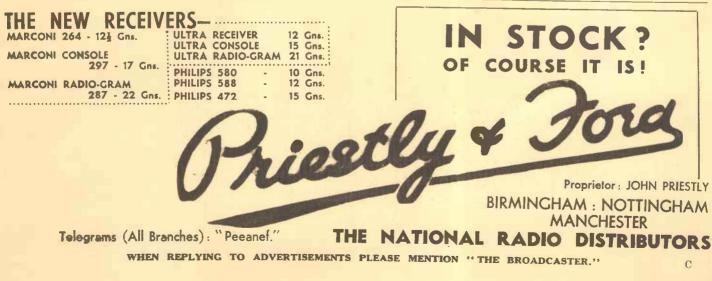
ERIE RESISTORS on art cards take the trick. The safest and most reliable resistors made, supplied on beautifully printed showcards; 24 carefully picked values, selected because they are continually "speci-fied" by every constructor—used by every manu-facturer. No dead stock; quality and demand sell Eries quickly.

The attractive new Erie display cards comprise 24 assorted I-watt values, IOO ohms to 2 megohms, each colour coded, labelled and identified on the card; 24J- — quick turnover on convenient outlay. Order at once from your wholesaler.



With every display card of Erie Resistors is given one 6d. Erie revolving disc colour code indicator printed in nine colours. Beautifully made instcelluloid, permanentland permanently useful.

THE RADIO RESISTOR Co. Ltd. I, Golden Square, Piccadilly Circus, London, W.I.



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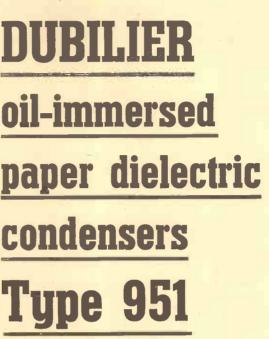
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Dubilier's new departure in radio and amplifier design is a range of new Oil-Immersed Paper Dielectric Condensers, which will come as a boon to designers of apparatus for Television, Radio and Low Frequency Amplifiers, using the higher voltages.

Each condenser comprises a multiple paper dielectric element, impregnated and oilimmersed and hermetically sealed into a sheet metal container. Leakage of oil is impossible, but expansion is adequately accommodated. In capacity and working voltage these condensers are small and most compact. Their low price enables a capacity value hitherto prohibited to be used in resistance capacity coupled amplifiers.

Instantaneous breakdown voltage is extremely high, as is also the insulation resistance; thus making the lower capacity condensers in this range eminently suitable for use as coupling condensers in high quality resistance capacity amplifiers. The larger capacity condensers are excellent for reservoir, smoothing and decoupling and also for output coupling in mains supply and amplifier arrangements employing output valves of 400-500 volts, as under normal conditions they are practically surgeproof.



Owing to the tendency to run mains equipment at higher ambient temperatures, these condensers should attract considerable interest as they are capable of continuous satisfactory service in the tropics. Available in capacities of .02 mfd. to 4 mfd. and working voltages of 1,000, 1,500 and 2,000.

Capacity µf	D.C. Working Volts	D.C. Test Volts	Price Each
.02	1,500	3,000	10/-
.1	1,500	3,000	10/9
.5	1,500	3,000	11/-
1.0	1,000	2,000	11/6
1.0	1,500	3,000	13/-
1.0	2,000	4,000	15/-
2.0	1,000	2,000	13/-
2.0	2,000	4,000	17/6
4.0	1,000	2,000	17/6
4.0	2,000	4,000	21/-

Capacity tolerance plus or minus 15%



DUBILIER CONDENSER CO. (1925) LTD., DUCON WORKS, VICTORIA ROAD, N. ACTON, W.3.

Lxide NDICATOR

ATENT APPLIED FOR

PRICES WITH 'INDICATORS'

* These prices do not apply to the Irish Free State.

INDICATOR"

other battery on the market like it. As soon as it was seen last season it was sold. This season we're ready for all demands. The Exide "Indicator" is exactly what listeners have been looking for for years. We are supporting it with strong advertising in the Press, and readers will come to you for the goods. Be ready.



BATTERY

There's always a steady sale for . . .

Type DTG-C 2 volt 20 a.h. 5'-

Type DFG-C 2 volt 45 a.h. 9'-



THE EXIDE DRY BATTERY

Obtainable from Exide Service Stations or your factor. Exide Service Stations give service on every make of battery Exide Batteries, Clifton Junction, near Manchester. Branches at London, Manchester, Birmingham, Bristol and Glasgow R 60

Type DXG-C 2 volt 58 a.h. 10'-Type DMG-C 2 volt 70 a.h. 12'-

Type DHG-C 2 volt 100 a.h. 15'6

WHEN REPLYING TO ADVERTISEMENTS PLEASE MENTION "THE BROADCASTER."



No. 329. Vol. XXVI.

SATURDAY, FEBRUARY 9

SEEKING FIRST TELEVISION SITE

P.M.G. SPEEDS UP ORGANISATION **OF SYSTEM**

One of the first moves of the P.M.G. Television Advisory Committee which met on Tuesday was to discuss possible sites for the new high definition television transmitter for London.

This advisory committee, it will be recalled, was formed on Thursday last week, immediately following the presentation of the Tele-

vision Report to the House of Commons. The actual work of site selection has been carried on this week by the technical sub-committee of the full Advisory Committee.

On Tuesday next the full committee is to hold its second meeting to discuss the findings of the sub-committee, and it is probable that the site will then be selected. It is understood that the P.M.G. is par-

ticularly anxious for the work of starting a television service to proceed as rapidly as possible, and with this in view frequent meet-ings of the Advisory Committee are to be held.

In the House of Commons on Monday Mr. Clarry, M.P., is to ask the P.M.G. if he can state when the B.B.C. will be in a positiou to announce to radio manufacturers the essential information preparatory to the construction of television receivers, such as the nature of the apparatus, wavelength of transmission and the number of lines to be used.

Starting Date?

Mr. Clarry is also to ask the P.M.G. to give a date when the Marconi-EMI and Baird companies will be in a position to market receivers, and when the new London station will he in a position to broadcast.

A number of these points, such as the technical details of transmissions. it will be re-called, have been referred to the Advisory Committee.

On the production side, the Marconi-EMI company reaffirms its statement that it will be ready to market receivers when the London service begins.

The Baird company has released prelimi-nary details of two types of receiver which are to be available in time for the start of the London service. Details of these, together with a general description of the Baird trans-

mission system, are given on page 23. Since the publication of the Television Re-port last week, set makers have been investigating production in the light of the terms of the report. Little concrete information re-garding television plans is available, it being held the time is a little too early to make definite decisions.

So soon as the Advisory Committee makes definite regulations regarding the technical arrangements for the transmissions decisions will be formulated.

Scophony, Ltd., whose system was investi-gated by the Television Committee, states it

Ever Ready Discount Increase ?

An increase in the retail discounts of Ever Ready batteries appears probable.

Mr. Magnus Goodfellow met representatives of the W.R.A. and S.R.R.A. this week, and an early announcoment is promised. Whether

proposes marketing television receivers, but adds it is too early to give details. The general features of the Scophony system

are to be employed in the apparatus marketed. This affords optically projected pictures of ample size and brilliancy by means of com-pact apparatus, which is simple to operate. It is stated that low power and low voltage is used and that how power and low voltage is used and that the apparatus is capable of long and efficient service without replacements or attention. It is anticipated that the price of Scophony receivers will be distinctly competitive.

The Mervyn Sound and Vision Co., Ltd., has been experimenting with both cathode ray and mechanical reception systems. It hopes to follow in connection with high definition transmissions its policy with regard to the present 30-line programmes, that of producing low-priced equipment.

Suggestion for Provinces

The company stated it is a pity the Television Committee did not suggest the removal of the present 30-line transmitter to the pro-vinces when the high definition programmes start in London. This would give people in the provinces a carry-over until their high definition stations were erected. Edison Bell (1933), Ltd., has already con-structed commercial models of receivers for

high definition work, and is at present making factory arrangements. It is expected complete vision and sound receivers will be

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the W.R.A. chairman, Mr. P. L. Harrison (Lincoln); the vice-chairman, Mr. J. Field-ing (Brighton); Mr. W. Upton (Middles-brough); Mr. L. Wilde (London); the general secretary, Captain H. A. Bain; and Mr. R. B. Donaldson, president of the S.R.R.A., met the chairman and managing director of the Ever Ready Co., and discussed with him in detail the whole question of the existing battery market in relation to the new Ever Ready H.T. battery. "As a result an announcement will be made

As a result an announcement will be made by the Ever Ready Co. in the imme-diate future regarding an adjustment of the discount position, which it is anticipated will give satisfaction to the organised retail sec-tion of the Industry."

marketed from between £40 and £50, and vision receivers only at about £25. These prices are based on mass production costs. The question of providing relays of tele-

vision broadcasts for subscribers is being considered by Rediffusion, Ltd., and Broadcast Relay Service, Ltd. It is stated the companies will be able to relay television programmes in areas adjacent to transmitters free of interference.

Expensive television receivers, it is added, will not be necessary. No details of fees to be paid by subscribers for this service have been arranged.

American Wire System

Long-distance H.F. transmission of tele-Long-distance H.F. transmission of tele-vision over wires will soon be possible, accord-ing to engineers of the Bell Telephone Laboratories, who delivered a paper before the winter convention of the American Insti-tute of Electrical Engineers in New York at the end of January.

The Bell engineers laid particular stress on new development of co-axial transmission lines which would make possible such longdistance image transmissions.

The co-axial transmissions. The co-axial transmission line has two wires like the normal line, but the return wire is a hollow tube. The second wire is strung in-side it and the two are held apart by small, widely spaced blocks.

"JUBILEE" TROUBLES

H. Clarke and Co., of Manchester, have advised a number of set makers that the word "Jubilee" was registered by them as a trade name on November 9 last.

THE BROADCASTER understands that among the manufacturers who have received this communication are some who have so far not used the word "Jubilee."

Atlas sets to be released on or before April 1 are to be called "Jubilee."

The Broadcaster and Wireless Retailer

February 9, 1935



Over four hundred people were present at the twenty-first annual dinner of Ferranti's, held at the . Midland Hotel, Manchester, on Friday, February 1.

News from **Everywhere**

The Essex Public Assistance Committee has approved the principle of supplying children's homes with receivers, and has ordered from F. W. Straw (Radio), Ltd., two Bush super-hets and four speakers, costing £39 6s. 6d., for the Tendring Home.

Hele and Co., Ltd., the Plymouth organ architects and manufacturers, have recently completed the installation of all-electric organs, with detached consoles, at Kenwyn Church, Truro; Holy Trinity Church, Dor-chester; and the Holy Trinity Church, Winchester.

Bristol Public Assistance Committee has accepted the tender of Bristol Wireless, Ltd., to instal a receiver and seventeen speakers at Stapleton Institution, Fishponds, at a cost of $\pounds148$ 10s. It is also intended to extend the radio equipment at the Eastville Institution.

Following a request from twenty-three urban councils, the Parliamentary Committee of Lancashire County Council has formed a by-law for noisy speakers and gramophones in shops, public places and travelling vans. Offenders will be liable to a penalty not exceeding £5.

general exhibit, featuring receivers by leading manufacturers, was staged by Brown and Co. (Simplex), Ltd., at the Scottish Cycling Exhibition, held recently at the M'Lennan Galleries, Glasgow.

An increase in membership of over 100 per An increase in membership of over 100 per cent. in the past five years is announced in the report of the secretary of the Radio Society of Great Britain. The membership at the beginning of December last was 2,245, as contrasted with only 1,006 in January, 1930

During 1934 fifty music companies of all kinds were registered with capitals totalling £201,900. The figures are given in the annual review of companies registered issued by Jordan and Sons, Ltd., company registra-tion agents, of Chancery Lane, London, W.C.2. Three of the music companies registered were public organisations with capitals totalling £100,000. The remaining forty-seven were private companies.

Publicity material is required by J. O. Hulme, 66, Market Street, and the City Radio Stores, 38, Market Street, both of Fenton, Stoke-on-Trent.

M.P.s WATCH NOISY SPEAKER BILL

BRIDGEGATE DEALERS' **NEWSPAPER**

Members of Parliament are watching Memoers of Parliament are watching dealers' interests in a clause in the Sunder-land Corporation Bill which seeks to control noisy speakers. They are taking steps to have the clause dropped or rendered ineffec-tive so far as dealers are concerned.

Wilson, Peck, Ltd., of Fargate and Leopold Street, Sheffield, rarely follow the popular fashion of promoting clearance sales. They have proved by experience that an occasional special offer of shop-soiled and pianos which have been hired for concerts brings better results.

A charging plant capable of handling 1,500 cells a week has been installed by Ronald Williams, Ltd., of Balham Hill, London, S.W. James and William Hastings, Ltd., of Bridgegate, are always original in their advertising campaigns. For their winter clearance sale they have circulated 30,000 full-size facsimile newsnapers. Considerable full-size facsimile newspapers. Considerable space in this is given to pianos and musical instruments.

Henry Hollingdrake and Son, Ltd., of Prince's Street, Stockport, have been appointed Ultra distributors.

Do You Know ?

Car Radio Licence

"Besides the licence that I hold for my set at home," writes a Brighton dealer, "must I obtain a separate licence for the receiver that I have in-stalled in my car?"

A WIRELESS licence covers the regular use of receiving apparatus at the address thereon, and also the occasional use by the licensee (or member of his household) of a portable receiver at another place, whether in a house, the open air, or in a car. The licence must be carried by the person using the set.

The concession in regard to portable sets does not cover the use of a re-ceiver which is permanently fitted in a motor-car. A separate licence must be obtained for such a set, and must be carried in the car.

Similar queries will be readily answered by THE BROADCASTER SERVICE BUREAU, 29, Bedford Street, Strand, London, W.C.2. 'Phone : Temple Bar 2468, Extension 253.

ROGUES ON THE PROWL AGAIN

SPECIFICATIONS STOLEN FROM COMPANY'S OFFICE

An Aerodyne Robin 7012 receiver has been stolen from the premises of Bourne and Garner, 8, Hope Street, Hanley, Staffs.

Smash and grab raiders on Saturday, February 2, stole a receiver from the premises of B. S. C. Lazenby, of Barnsley Road, South Elmshall, near Barnsley. -*-

E. K. Cole, Ltd., report that an Ekco AC85 chassis, serial number 555531, com-plete with valves and speaker, together with a Garrard AC6 motor unit and pick-up, has been stolen. -*-

A Philips "588" D.C. receiver, serial num-ber 200833, has been stolen from H.R.S., Ltd., of 15-16, Alfred Place, Tottenham Court Road, London, W.C.1. *

A Westinghouse type R.G.C.9 charger was stolen from the car of one of the firm's re-presentatives when it was in South Norwood, London. The serial number of the charger is 17658. ~ -X-

Burglars with a curious taste entered the premises of the 362 Radio Valve Co., Ltd., at Stoneham Road, Upper Clapton, Londou, on February 1. They took a small amount of petty cash, a number of valves, and cer-tain patent specifications. The company points out that the valves stolen were removed from their entered amount therefore he unreal their cartons, and would therefore be unsale-able through the usual channels.

NEW PREMISES

S. Chantry is removing to larger premises at 10, Montague Street, Rothesay. *

United Ebonite Manufacturers, Ltd., have moved to Springside Mill, Little Lever, Bolton. ¥

* * Dale, Forty and Co., Ltd., have opened excellent new showrooms at Mond Buildings, Union Street, Swansea, where they have special displays of new model pianos. -X--X-

Partridge and Mee, Ltd., have closed their London office in New Oxford Street. Busi-ness is now being dealt with from the head office at Parmeko Works, Aylestone, Leicester. X ×

Electrical and Telephonic (Norwich), Ltd., of 15, St. Peter's Street, have removed to larger and more convenient premises at 15, Lower Goat Lane, Norwich.

RETAILER PREPARES FOR TELEVISION

One Manchester radio dealer, Barratt and Co., of 16, Wilmslow Road, Rusholme, has already decided his plans for cashing in on television—when it comes.

television—when it comes. Mr. Barratt has just opened new premises which have an excellent frontage, comprising two windows. One of these will be used to display diagrams and other exhibits to teach the A B C of television. There will be five units to the display, which will be specially illuminated, but the real high spot will be a television receiver.

BAIRD READY WITH TWO TELEVISORS

DEMONSTRATION OF £50 AND £80 MODELS

Two Baird television receivers, which will two Baird television receivers, which will be available at approximately £50 and £80°, respectively immediately the newly sanc-tioned B.B.C. high-definition broadcasts begin, were demonstrated to THE BROAD-CASTER this week.

A vision and sound programme broadcast on two short-wave channels from the Crystal on two short-wave channels from the Crystal Palace, London, S.E.19, was received under exacting conditions at the Baird Company's offices in Victoria Street. Then a visit was made to the firm's 40,000 sq. ft. Crystal Palace premises, where the transmitters, studios, laboratories and factories are situated. The CFO execution council to of complete sound

studios, laboratories and lactories are studied. The £50 receiver consists of complete sound and vision receivers in a walnut cabinet, 4 ft. high, 2 ft. wide, and 2 ft. deep. An 8 in. by 6 in. picture appears on the end of a cathode ray tube "framed" at the top of the front of the cabinet. Below are five controls, and under these is the usual speaker aperture.

aperture. Two knobs provide for tuning the sound receiver and adjusting volume. The remain-ing three tune the vision set, control the contrast of the picture, and control the aver-age brilliance. Both receivers cover a wave-range of 5-9 metres, which, it is said, would enable as many as 10 transmitters to be received.

ceived. The picture, in the £50 set, is in sepia and cream tints, but it is stated that in the production model a black-and-white pic-ture will be obtained. As many as ten people can "look-in" at once.

REFLECTED PICTURE

For the £80 receiver, a 4 ft. by 2 ft. 3 in. by 2 ft. cabinet, with a top lid, is used. The screen of a giant cathode ray tube is "framed" in the centre of what corresponds to the motor-board of a radiogram, and is seen through a mirror mounted under the lid. This is propped open at an angle of

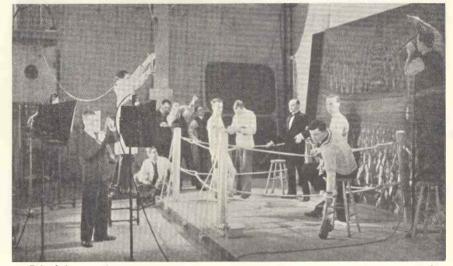
lid. This is propped open at an angre of 45 degrees. The picture measures 12 in. by 9 in., is black and white, and can be seen by as many as 30 people. There are five controls, as in the first receiver.

as in the first receiver. In both sets a number of pre-set controls enable the apparatus to be adjusted for the enable the apparatus to be adjusted for the reception of all transmissions using from 100 to 500 lines and from 12 to 50 pictures per second. Both sets will be supplied with an aerial, consisting of a stiff wire about 10 ft. long, fitted with a connecting table. This aerial, it is said, should be mounted verti-cally on the roof of the house for best results, but may also be mounted on the side of the house or even used indoors. It is said that no synchronising adjustments have to be made when tuning in a picture, that no danger attends the use of the sets, and that the designs have been thoroughly

and that the designs have been thoroughly tested for reliability and long life, and, con-sequently, no service troubles are anticipated. A life comparable to that of radio valves

A life comparable to that of radio valves is claimed for the cathode ray tubes, but no price is yet available. It is stated that the £50 receiver is not likely to become obsolete within three years, and that the £80 model will be useful for at least four years. Further technical details of the receivers

are not yet available. The programme presented at the demon-stration was received from the Crystal Palace on wavelengths of 7 metres for vision and 8.5 metres for sound. The picture on the £80 instrument was clearly visible



Behind the scenes during the televising, by the intermediate film method, of a boxing match staged at Baird's Crystal Palace studios. How vision and sound are received on short-wave 180-line "production" televisors is described below.

from all parts of a large room while the normal electric lighting was on. The smaller sepia and cream picture was clear at closer range and it is probable that the improved black-and-white picture, which will be pro-vided in the production receiver, will be entirely suitable for use in normal lighting. Naturally, greater apparent brilliance is obtained in a darkened room, and the greater part of the demonstration was carried out under these conditions.

under these conditions.

The picture received utilised 180-line scanning repeated 25 times a second. It remained rock steady and was entirely free of flicker. The line construction of the picture and the motion of the scanning spot

were still perceptible, however. The quality of the picture and freedom from distortion depended considerably on the nature of the transmission.

The programme commenced with intro-ductory remarks by an announcer and a display of hats and hair-dressing styles by Miss Alma Taylor. These were head and shoulder direct television "shots" by means of spot-light scanning.

RECOGNISABLE

Mr. Barton Chapple, the announcer, was immediately recognisable, and the details of Miss Taylor's hats were very clear. The line "make-up" of the picture was evident and there was slight vertical compression.

The next items were an exterior scene of horses jumping on the terrace at Crystal Palace, and an interior scene of a boxing match staged in a studio. Both these scenes were televised by the intermediate film method. With this system the scene is "shot" by or ordinary binners comere and the film is

an ordinary kinema camera and the film is developed and scanned by the television transmitter, all within approximately 30 seconds. As, of course, the "lookers-in" see seconds. As, of course, the "lookers-in" see the scene 30 seconds after it actually happened, the sound is also delayed by recording it on the film and then reconverting it to electrical impulses simultaneously with the scanning of the picture. During the exterior "shot" the famous Crystal Palace statuary was recognisable and the horses, which appeared to be some 100 yards from the camera, were seen clearly, but were reduced almost to silhouettes. Boughass in scanning was particularly

Roughness in scanning was particularly noticeable in this scene, but the boxing match, on the other hand, was remarkably free of defects and possessed high entertainment value.

Finally, the transmission and reception of films was demonstrated. Excerpts from "I Was a Spy," "Jack, Ahoy!" and other Gaumont-British films, were presented. Apart from the characteristics already mentioned, the pictures suffered from lack of brilliance and lack of detail in crowd scenes. Throughout the demonstration there was practically no interference by static with either

It was stated that tests had proved similar results to be obtainable within 35 miles radius of the Crystal Palace.

STUDIO ARRANGEMENT

At the Crystal Palace an ingenious arrangement of studios and apparatus enables all types of programme to be broadcast in rapid succession. A tele-cine camera for inter-mediate-film system broadcasts is installed in a room which has windows giving on to three studios on three of its sides and, on the fourth, a window giving on to the terrace. Above the central room is a control room, also with

the central room is a control room, also with windows looking into the studios, and provided with full control and monitoring gear. Number 1 studio measures 60 ft. by 40 ft. and studio 2 is 50 ft. by 30 ft. and is provided with kinema-projection apparatus so that animated background scenes can be thrown on a screen behind the actors. Studio 3 is 40 ft. by 20 ft. Samarta from these is the studio for direct

Separate from these is the studio for direct television by means of spot-light scanning. In a "tele-cine room" are two projectors for the transmission of talking films. One employs a 180-line disc scanner and the other utilises an electron scanner.

360-LINE RESULTS

Apart from the film projector, the latter has no moving parts, and the definition is imme-diately adjustable between 100 and 500 lines at 25 pictures a second.

This electron scanner is the latest develop-ment, and is expected to bring about very considerable changes at the transmission end as regards both direct indoor and outdoor television and the transmission of films. A 360-line picture obtained from film by this

a trace of "scanning motion" effect was prac-tically the only point which could be criticised.

. The Broadcaster and Wireless Retailer



Over 200 members of the staff of Britannia Batteries, Ltd., attended the firm's fifth annual whist drive and dance at the Works Dance Hall, Redditch, on Friday, January 25.

N.R.E.A. Adopts its Constitution Employment Bureau a Success

Memorandum and articles of association prepared by the working committee were unanimously adopted at a meeting of about 150 members of the National Radio En-gineers' Association, held at King George's Hall, Caroline Street, London, on Wednes-dow evening

Hall, Caroline Street, London, on Wednes-day evening. The principal objects of the Association are stated in the memorandum to be: To promote the science and practice of radio engineering and to improve the knowledge and status of radio engineers; to provide educational facilities and examinations and experiments of the science of science the certificates of qualification; to facilitate the interchange of ideas and to assist its mem-bers in finding suitable employment and employers in finding suitable engineers. It is also stated that the Association shall not support or endowment and

not support or endeavour to impose any regulation, restriction or condition which, if an object of the Association, would make it a trade union.

11 an object of the Association, would make it a trade union. The Association is to be registered under the Companies Act and members' liability will be limited to 5s. An entrance fee of 5s. and an annual subscription of 15s, has been decided upou. The meeting elected W. MacLanachan chairman; J. Gibson (manufacturers' service), vice-chairman; N. de Gruchy (re-tail service), secretary; and H. King, treasurer. The following were elected to the Council: W. Merrington and H. Harry Morgan (both makers' service); H. M. Wat-son and C. Palmer (retail service); T. D. Baker (trade service). Mr. de Gruchy urged those present to "go out and get 10 members each," and said he was expecting meetings to be held at Bris-tol, Plymouth, Leicester, Blackpool, New-castle and Glasgow. Employers, he said, found it hard to dis-

castle and Glasgow. Employers, he said, found it hard to dis-cover which engineers were competent and which were not. They were ready to pay for good men, and already the Association's employment bureau was proving of real help to or good men, and already the Association's employment bureau was proving of real help to makers. A proposal that free-lance service men should be eligible for membership was rejected.

PHILCO SERVICE ASSOCIATION

In an endeavour to raise the status of service dealers and to keep this work in their hands, Philco is launching a service organisation to be known as Radio Manu-facturers' Service.

Membership is to be open to all dealers who have service equipment, and is not exclusive to Philco accredited dealers, while

the scheme is to embrace all makes of sets. Application forms for membership are being prepared and from these Philco is to decide whether a dealer is fitted to become

a member of R.M.S. Radio Manufacturers' Service is then to be widely advertised by Philco. No fees are to be charged for membership.

L.C.C. GIVES MORE SUPPORT TO MUSIC

A decision has been made to extend the support which the London County Council gives to musical education, and monetary grants will be made to all school music associations.

In addition, the grants given to schools of music such as the Guildhall will be restored to their former level.

The additional money will be expended in giving "appreciation" concerts during school hours at which professional musicians will play and their work will be explained by a lecturer.

There are now 25 school music associations, or one for every district in London. These are run on the basis of co-operation instead of competition, public concerts being given by the children drawn from each of the schools in the area. They were founded about fourteen years

ago, and some six years ago a grant of £50 was made by the L.C.C. to Battersea, the pioneers, and Hackney, for the running of appreciation concerts.

This experiment was successful, and the grant for this year is £450.

Plans are now being discussed for the greatest children's musical festival ever held. It is hoped to hold this at the Albert Hall this autumn, when choirs of nearly 2,000 children will perform.

MANCHESTER CLUB

CABLE MAKER TALKS ABOUT METRIC SYSTEM

Mr. Harry Allcock, the export manager of W. T. Glover and Co., cable manufac-turers, of Trafford Park, Manchester, gave an address on "Metric Measures and Decimal Coinage" to members of the Man-chester and District Radio Trades Luncheon Club at the Grand Hotel, Manchester, on Monday. He explained that the radio industries

Monday. He explained that the radio industries were destined to play an important part in the process of bringing the peoples of the world into closer contact and breaking down the insular barriers which at present retard development of international trading. Every country, when discarding its own national system, had selected the metric system, and no country having once

national system, and selected the metric system, and no country having once adopted it had ever abandoned it. Owing to the Jubilee celebrations in May. it was decided to hold the May meeting of the Luncheon Club on the second Monday in the month, May 13.

NEWCASTLE WHOLESALERS

A special meeting of the wholesalers in Newcastle, arranged by Reginald E. Fabian, W.E. representative for the North-East Coast, took place on Friday at the Central Exchange Hotel.

Exchange Hotel. This was a result of suggestions by many local factors that such a meeting might be instrumental in forming a local association, whereby it was felt that factors would whereby it wa greatly benefit.

CABARET BILL FOR **R.I.G.S. DANCE** SYDNEY LIPTON'S BAND **TO LEAD HAPPY** FEET

February 9, 1935

The Carlisle Cousins, the Western Brothers and John Tilley have been engaged for the Radio Industry Golfing Society's dance at Grosvenor House on Friday, March 8.

Members of the Society are reminded that applications for tickets should be made to the honorary secretary, 29, Bedford Street, Strand, London, W.C.2, immediately. Sydney Lipton and his band have been engaged for the evening. It should be noted that applications for

tickets from non-members cannot be received. Non-members can only attend as guests of Tickets are now available, price one guinea

each.

LANCS R.I.G.S. ANNUAL MEETING

ELECTION OF OFFICERS

<text><text><text><text><text>

MORE M.T.B.S. ANNUITANTS

The annual meeting of the Music Trades' Benevolent Society is to be held at 4 p.m on Friday, March 22, at 64, Gresham Street, London, E.C.2.

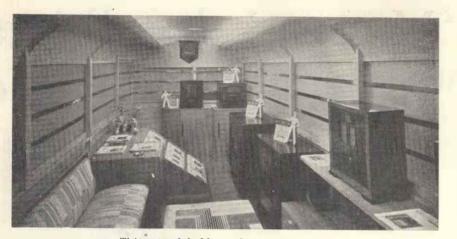
Following the meeting the Board of Man-agement has decided to hold another election for annuitants, when ten further candidates will be elected. This will raise the total number of annuitants to 96.

The board earnestly appeals to all employers and employees in every branch of the music industry to rally round the society.

NOTTS LUNCH CLUB

Mrs. Vera Woodward will sneak at the next meeting of the Notts Lunch Club on Wednesday at the Black Boy Hotel, Not-tingham, on "The Influence of Radio on Women"

Women." Ald. E. Huntsman, chairman of Notting-ham Electricity Committee, is to be the guest of honour at the Club's annual dinner at the Victoria Station Hotel on February 20.



The interior of the Marconiphone mobile showroom.

MOBILE SHOWROOM NOW ON ROAD

8 4. 1.

MARCONIPHONE COACH TURNED **INTO EXHIBITION #**

This week the Marconiphone mobile showroom, the re-creation of the firm's famous P.A. coach, began its tour of the country. This huge vehicle is available to dealers at the fee of £5 a day, and forms a travelling exhibition to which dealers can invite their customers.

customers. Starting this week in South London, the coach will run through Kent to East and West Sussex, various towns in Hampshire, up to Wilts, down to Dorset, from Dorset to Somerset; Somerset to North and South Devon, then on to numerous towns in South Wales. From there the coach will proceed north through Shuppchire Checkire Langeshire through Shropshire, Cheshire, Lancashire, into Yorkshire. The coach will spend the Easter holidays in Yorkshire.

Striking Increase In Redfern's Rubber Profits

The accounts of Redfern's Rubber Works, Ltd., for 1934 show a striking increase in profits compared with the previous year. Revenue for the year amounted to £25,720, and after allowing £7,194 for depreciation, net profit comes out at £18,526, an increase of £10,300 on 1933. As already announced, the dividend on the ordinary shares has been raised from $2\frac{1}{2}$ per cent. to $7\frac{1}{2}$ per cent., absorbing £6,000, leaving a balance of £6,960 to be carried forward.

British Homophone.

At the annual general meeting of the British Homophone Co., Ltd., on Thursday, Mr. W. D. Sternberg, the chairman, said negotiations regarding development proposals being investigated by the company were not far enough advanced for details to be given.

Philips P.A. at Empire Swimming Pool

A formidable problem was tackled when Philips Lamps Amplifier Department undertook the design and installation of a P.A. system at the Empire Swimming Pool at Wembley.

The arena is constructed almost entirely of reinforced concrete and has a volume of some 4,500,000 cubic feet. Echo in the building was considerable; the arena has a rever-beration period of $8\frac{1}{2}$ seconds when empty, and about half this period when reasonably

Careful positioning of the amplifying apparatus was thus necessary to ensure not only intelligible speech but pleasing musical repro-duction. After some weeks of intensive ex-periment, and the application of practically every known electro-acoustic principle, com-pletely echo-free reproduction was obtained.

Special Switching.

In addition to installing the amplifier and speaker, special arrangements were made for switching the microphones and groups of the speakers.

The apparatus as finally installed incor-porated thirteen of the Philips directionalflare type speakers on each side of the auditorium. These units were fixed to the ceiling, each about 4ft. away from the side walls. A similar number of the same type of speaker was slung on 10-ft. steel cords from each of the lamp-inspection holes in the roof. In addition, six special baffles, on each of which were mounted five non-directional loudspeaker units, were arranged in two banks of three baffles, one bank being secured to the concrete pillaring on each side of the arena.

A special super-power amplifier, incorporating a power stage dissipating 600 watts, is employed. The valve in this final stage is the type MA 4/600, which gives an undis-torted output of approximately 130 watts. Safety precautions are made a special feature.

Microphone Position.

The microphone used for announcements is The microphone used for announcements is situated in the centre of the south side of the building on the arena level and immedi-ately behind the centre baffle; the band-relay microphone is in the bandstand, which, for the skating, has been placed alongside the rink at the end opposite to the main entrance. When the band is relayed or gramophone music is being reproduced, only six baffle-column loudspeaker banks are used, and the whole of the rink is adequately covered. Incidentally, no "feedback" trouble is experienced.

When announcements to the crowd are made, the directional-flare type speakers are made, the directional-flare type speakers are used, a special filter operating on the speech microphone to ensure clarity. In order to avoid the use of speakers in those parts of the building which are empty, it has been found necessary to make arrangements for the switching into circuit of speaker banks covering only the required areas.

WESTINGHOUSE TO CHANGE NAME

ANNOUNCEMENT AT A.G.M.

The Westinghouse Brake and Signal Co., Ltd., is the new name of the Westinghouse Brake and Saxby Signal Co., Ltd. The decision to change the name was taken

at the annual meeting of the company on

Tuesday. Lord Southborough, the chairman, said that the Westinghouse Metal Rectifier continued to be of great value in an ever-widening field of engineering science. New fields for its use were constantly being discovered, some of the latest developments being in connection with Blating plants, broadcast transmitters and Government telephone services. Prospects of the company, he added, were

decidedly encouraging.

Part Exchange Price Booklet

Five hundred different receivers of forty-four makes are listed in the "Part Exchange Resale Price Schedule" on pages 41, 42 and

45 of this issue. The list is considerably larger than that published in July, 1934, and it has been brought right up to date.

The most complete schedule of its kind published in connection with the part ex-change of radio sets, it is again available in booklet form.

The new booklets are waistcoat-pocket size, and will be published immediately. The price is 1s.. post free, but there is a privilege price of 6d. post free to subscribers, and 4d. per copy. post free, for quantities of one dozen and upwards.

ORDER FORM

To the Subscription Dept., "The Broadcaster," 29, Bedford Street, Strand, London, W.C.2.

Please send me, post free......copies of the Part Exchange Resale Price Booklet to the address below.

- For Broadcaster Subscribers Only. I enclose Postal Order at the special price of 6d. per copy.
- For Non-Subscribers. I enclose Postal Order at the full price of 1s. per copy.
- For Quantities. I enclose Postal Order at the quantity price of 4d. per copy which only applies to orders for one dozen or over.

(Cross out section not required.)

Business Name	••
Address	••
	••
Date No. of P.O	•••



PART EXCHANGE

HE first 1935 edition of THE BROAD-CASTER'S Part Exchange Resale Price Schedule shows one definite tendency.

That is a decided and almost general levelling of the lowest and highest transactions which, with the courteous assistance of a number of dealers, we have been able to record.

The difference between prices obtained for similar sets in different parts of the country is still marked but by no means as acute.

To show the nature of the movements we will instance at random examples taken from the Aerodyne, Ekco, G.E.C., and Marconiphone lists.

The Aerodyne B2, a 1931/32 battery model, shows a lower average but a higher "maximum." This is probably due to the fact that more of the 1932 type are now in the second-hand market.

Levelling up is shown by the figure for AC3 1932/33 receiver.

A.C. and D.C. Sets

The earlier Ekco models show little change in value.

Some of maximum prices have even increased, but almost without exception the average resale price obtained for an Ekco receiver has been slightly lower.

The Ekco RG5 is the only instrument which shows a definite increase in resale value.

Why, we cannot say. Possibly it may even be the result of a few "lucky deals."

The G.E.C. range shows figures of considerable interest. There are almost as many "ups" as "downs" in the average resale price figure.

The earlier sets naturally tend to show decreases, but dealers who have had partexchange transactions with the later models report upward tendencies. Again, therefore, is the levelling up process readily apparent.

In the Marconiphone range we come across at once an interesting point. In the 1930/31 range were two sets, the AC3 (39) and the DC3 (39). A year ago the average resale price of the AC was $\pounds 2$ 5s. 11d. To-day it is $\pounds 2$ 16s. 8d. A year ago the average resale price of the DC3 was £2 6s. 8d., to-day it is £2 28. 4d.

In both cases the maximum prices have increased, but the movement of average prices is in accord with what might be expected of AC and DC receivers-the resaleability of AC obviously being the greater.

'Museum' that Brings in the

R ECENTLY I have been taking particular care to make myself known to the "music," as distinct from the "radio," side of our Industry—and the distinction is not *intended* to be invidious. So on a Lancashire visit I took to heart the

advice which many had given me, to "see Rushworth and Dreaper."

My visit was awkwardly timed for a Satur-My visit was awkwardly timed for a Satur-day morning, and so I was surprised to find that not only did I see Mr. W. Rush-worth and Mr. James Rushworth, Mr. Hutchence, Mr. M. Gilbert, Mr. Philips, Mr. Fell, Mr. Millineux and Mr. Bickley, but they all seemed glad to see me and courteously willing to give me as much time as I appeared

to require. Saturday morning calls on retail premises do not, in my experience, usually produce that sort of welcome.

*

Naturally, I saw the famous "museum," and, in fact, upset the carefully planned time-table which THE BROADCASTER'S Lancashire representative, Mr. Fred Gronback, had planned for me.

Still, my apology is that I didn't stay there nearly long enough—only just long enough to wish to go again.

* * *

I was lucky enough to see practical proof of the value of the collection quite apart from its monetary worth. A party of some dozen schoolgirls—average age 12 to 14, I imagine—was being conducted

around.

And the rapt manner in which the youngsters followed the remarks of their guide was a sure sign of interest.

That was just one dozen potential buyers "caught young" who are not likely to forget their Rushworth visit.

*

I went to Rushworth's partially to obtain information on one particular point. Every-one listened to my problem courteously, and each, in his different sphere, gave me the best of advice.

Then, finally, as I was about to leave, Mr. James Rushworth took me to the radio department and asked for my criticisms and suggestions. I did mu

did my best-I wish my best had been better to return thanks for the kindly advice I had received. There is an "air" about Rushworth's

which, to be honest, I have yet to find else-where in radio or music retail establishments.

Ferranti's Twenty-first Dinner

The twenty-first annual Ferranti dinner at the Midland Hotel, Manchester, on Friday of last week, was, of course, a special celebration

Well over 400 were present, and the num-

Mr. and Mrs. V. Z. de Ferranti were both present, Mr. Ferranti being in the chair. In his speech Mr. Ferranti gave some in-

teresting facts about the company's progress. They now employed, he said, ten times the number of workpeople they had in 1905, and the peak output of the works in the best month of the past year was twice the annual turnover of 1905.

There was a special celebration apart from the twenty-first birthday, Mr. Ferranti told us,

Major R. W. Cooper, O.B.E., M.C., a director of the company, was celebrating his



Mr. E. K. Balcombe Alba, managing direc-tor, receiving the good wishes of Mr. J. Golding, the sales director, when leaving London on Wednesday for a business visit to the United States. (See opposite page.)

silver jubilee with Ferranti's, but his record was broken by that of Mr. Crawley, who could claim 43 years' service.

Despite the fact that they seem to grow year by year, there is a delightfully informal air about these pleasant Ferranti evenings—and, knowing Mr. Vincent Ferranti, I think it will always remain.

Mammoth Factory Growing

Mr. C. P. Beardsall gave me a quick "run round" the new Ferranti factory at Mostyn, only seven minutes by car from the Hollin-wood Works.

I think it will prove one of the finest in the Trade when running. At the moment just over 70,000 sq. ft. of

The new factory has 260,000 sq. ft. The new factory has 260,000 sq. ft. The main "shop" is, I imagine, the largest possessed by any radio manufacturer. It was previously a wire works, and is all

on one floor.

The radio organisation office, whole accounts and factory is to go there, and it is expected that the plant will be in full swing in June.

*

I shall be very interested to see it in working order, when, I am told, it will contain just 100 per cent. more plant and machinery than is now in use.

than is now in use. Next year's Ferranti output looks like being a big one. All the rebuilding, by the way, is being done by Ferranti's own labour, and I am told that when Mr. Vincent Ferranti signed, in London, the documents completing the purchase, the fact was teleprinted to Hollin-wood at 11.30 a.m., and by 2.30 p.m. on the same day over 200 workmen were busy on the alterations. alterations.

I met Mr. F. M. Saddington at the Clarke's "Atlas" works on Monday and had a long

The Broadcaster and Wireless Retailer

Hanchard Goodwin, and members of the executive staff were also present. Mrs. Hanchard Goodwin distributed the

Mrs. Hanchard Goodwin distributed the prizes, and Messrs. A. G. Graham and H. A. Lester were dance M.C.s. Music was provided by E. G. Freeman's well-known orchestra, and dancing continued

*

Portadyne's social club is planning another dance to be held on March 1 at the King's

I understand the directors of the company

and members of the executive and outside staff will be present in force, and that a

cordial invitation is being extended to the

*

Mr. E. K. Balcombe, And's managing director, left on the *Berengaria* on Wednes-day for a visit to the States. He is going to visit the Crosley factory and discuss refrigeration plans for the coming

season. Alba, of course, are the agents here for Crosley Shelvador refrigerators. It seems that Mr. Balcombe will get a cold

*

billiards and snooker tournament were held. Some hundreds of the Cossor staff were present, including Mr. J. S. Mitchell, sales superintendent, and the guest of honour was

Tom Newman, the famous billiards cham-

Last week the finals of the great Cossor

K. Balcombe, Alba's managing

*

until 2 a.m.

Mr. E.

pion.

Head Hotel, Acton.

firm's retail friends.

*

reception-and be delighted.

*

Business Future

discussion both with him and Mr. V. Carlisle

Mr. Saddington is, of course, "Murphy"-trained, and he absorbed a lot of ideas which we always associate with Murphy Radio. He is very enthusiastic about the Atlas

scheme and promises some startling results. At the moment he is concentrating upon picking the right dealers for his "restricted list.

With the Manchester Lunch Club

Manchester's radio trade luncheon club made me very welcome at the Grand Hotel on Monday, where I was the guest of the Hon. Secretary, Mr. R. H. Ellis. Mr. J. H. Farthing, the club's president,

occupied the chair. It was my first visit to the Manchester club

-the only one in the country to which I had not been.

I was struck by two departures from the usual luncheon club procedure.

First of all, no discussion is permitted; and secondly, the minutes of the previous meeting are formally read and confirmed.

* *

I must admit that I personally found the veto on discussion a natter of disappointment. The particular speaker (his remarks are reported elsewhere) was interesting and, I

am sure, would have provoked a most interesting discussion. Usually I have found that radio lunch-club talks have been more interesting than the

speeches. Given a good speaker, they should be, because of the divergence of the views expressed. As a guest who had a most pleasurable time, might I, with all due respect, suggest to Manchester that they try out a discussion

at one meeting? * x *

Pertrix held their fifth annual whist drive and dance at their works' hall, Redditch, on Friday, January 25. Over 200 members of the staff, including

the Midland district managers and representa-tives, and their friends, attended. Mr. John

TAFF

A. Raymond Parker, Ass.I.R.E., is repre-senting Ferranti, Ltd., in Kent and Sussex.

Colin Derham has joined the Northern Steel and Hardware Co., Ltd., of Man-chester, and will represent them in South-port, Blackpool, Fleetwood, Lancaster, Barrow, and the Lake District.

A. R. Warrilow has joined the staff of the Electrical and Radio Publicity Service, of Albion House, 59, New Oxford Street, London, W.C.I.

H. Davey Smith has been appointed to cover Notts, Lincs, Leics, and Derbyshire for Portadyne Radio, Ltd.

R. A. Bargate, West Country representa-tive of Portadyne, is now at 21, New North Road, Exeter.

J. B. Allaway, of 613, Welbeck Road, Newcastle, has been appointed to the County Durham area by Itonia, and will operate from the Newcastle depot. Previously he was with H. C. Rawson, of Newcastle, and before that Mr. Allaway travelled the Western States of America with radio and sports goods for the Hudson Bay Co.

A. E. Potton, for many years G.E.C.'s radio manager for South Wales and the West Country, has been transferred from Cardiff to a position at the firm's London headquarters. **R. G. E. Mays**, of Swansea, has taken over Mr. Potton's duties. Mr. Mays has been at Swansea six years, and previously was at the Coventry factory

A. Hoban, A.M.I.R.E., late factory mana-ger of the Gramophone Co., Ltd., has been appointed works manager of R.A.P., Ltd., of Thames Ditton. Mr. Hoban was with H.M.V. five years and organised their factories in Italy and Turkey.

Mr. Blackwell became Cossor champion for 1934-35 by defeating Mr. Golder in the billiards game, and Mr. F. W. Taylor in the snooker. 1 * *

Mr. S. A. Hurren made his first public speech as head of the music and radio depart-ments of the Northern Polytechnic at the Old Boys Association dance on Saturday. He congratulated the "boys" on being in

the music trade. Having stuck it during the bad period, he said, they were now reaping the fruits of their perseverance. They were very fortunate in being in the Trade now that prosperous times seemed to be coming along.

C.O. Birtles, Murphy "Champion"

C. O. Birtles, Ltd., Sheffield, held a jolly social evening at the Wagon and Horses Hotel, on Thursday, January 31. The firm's branches were well represented

in a company numbering upwards of 70. Supper was served in an interval between

Supper was served in an interval between games and dancing. Mr. Birtles was a happy host, and the good spirit existing between him and his employees was well in evidence. Changing the subject, I take this oppor-tunity to congratulate Mr. Birtles on his success in heading the list of sales of Murphy receivers with a total of $\pounds 6_{235}$ 10s. The next most successful Murphy dealer

The next most successful Murphy dealer was a Derbyshire man who sold receivers to the value of £5,261 5s. *

*

My weekly half-guinea for a story I award to Mr. I. A. Kelly, of Bishop Bros., the Wellington, Somerset, retailers.

*

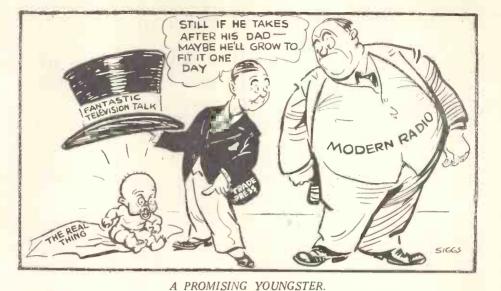
"In the early days," says Mr. Kelly, "I demonstrated a set to a 'dear old soul' one Sunday morning. I thought the service would appeal to the good lady, and, indeed, it did.

"Everything went well until the weather forecast, when, all of a sudden, the beaming smiles left the lady's face. Was it because the forecast was unfavourable, I wondered? But the weather was to be good.

"After looking at me several times with an expression of annoyance and surprise, my prospective customer burst out : 'Well! This is a nice demonstration, I must say! The thing's running down after only a few minutes.'

was giving the fore-cast at dictation speed !"

The Speaker.



.27

COMMERCIAL . NEWS

A meeting of creditors of Novo Radio Electric, Ltd., will be held at the offices of Keenlyside and Forster, Lloyds Bank Chambers, Collingwood Street, Newcastle-upon-Tyne, on Friday, February 8, at

NewCastle-Upon-Tyne, on Friday, repruary o, at 4 p.m. Notice is given that the following companies have been struck off the Register and dissolved: Associated Schools of Music and Recreation, Ltd., and the Robertson Murdoch Music Co., Ltd.

Receiving Orders and Adjudications

Edgar Howitt, residing and carrying on business as Howard and Co., at 368, South Road, Walkley. Sheffield, Yorks. Petition filed and orders dated January 28; on debtor's petition Clifford Moon, residing and carrying on business at 24, Market Street, Heanor, Derbyshire. Petition filed and orders dated February 1; on debtor's petition.

Receiving Order, First Meeting, Public Examination and Adjudication

Harry Gallie, 103, Weyhill Road, Andover, and carrying on business at Tidworth Market, Tidworth, both in the county of Hants. Petition filed and orders dated January 31; on debtor's petition. First meeting February 12, 14.30 a.m., at the Official Receiver's office, 12, Rolleston Street; public examination March 7, 2 p.m., at the Guildhall, both Salisbury. Order for summary administration dated January 31. Salisbury. January 31.

Receiving Order, First Meeting and Public Examination

Fublic LXAMINATION Eric George Williams, 49, Rake Hill, Burntwood, near Lichfield, and carrying on business at 37, High Street, Brownhills, near Walsall, both in the county of Staffs. Order dated January 26 and petition filed January 5. First meeting February 14. 12 a.m., at the Official Receiver's office, 159, Great Charles Street, Birmingham; public examination February 28, 11 a.m., at the Court House, Lichfield Street, Walsall.

First Meetings and Public Examinations

First Meetings and Public Examinations Edgar Howitt, residing and carrying on business as Howard and Co. at 364, South Road, Walkley, Sheffield, Yorkshire. First meeting February 13, 12 noon, at the Official Receiver's office, Figtree Lane; public examination February 21, 2 p.m., at the County Court Hall, Bank Street, both Shef-field, 1. Order for summary administration dated February 2. William Andrew Jolly, 76, Cedars Avenue, Rad-ford, and trading as the Globe Equipment Co. at 36, Foleshill Road, both Coventry. First meeting February 8, 330 p.m., at the Official Receiver's office, 9-11, High Street; public examination March 6, 2 p.m., at the County Hall, both Coventry.

Adjudication

Alexander Llewellyn Tebbutt, 66. Union Street, Wednesbury. Staffs, and lately carrying on business at 75, High Street, Brierley Hill, Staffs, and 26, New Street, Dudley, Worcestershire. Petition filed January 7 and order dated January 28.

Release of Trustees

Kelease of Trustees George William Corsby, 17, Hows Close, Uxbridge, Middlesex, lately trading as Corsby's Piano Stores at 1, Wellington Street, Woolwich, and 81, High Street, Eltham, both Kent. Trustee, John Ebenezer Webber, 64, Gresham Street, London, E.C.2; released January 26. Sydney Colbert, residing and carrying on business at 350, Kirkstall Road, Leeds, Yorks. Trustee, Harry Clifford Bowling, 24, Bond Street, Leeds: released January 23. Thomas Ward, 72, Fairfield Road and carrying on pusiness at 7b, Richmond Street, both in Bridling-to, Yorks, and formerly residing and trading at 5, Frincess Street, Bridlington. Trustee, John Stanley Snowball, Bank Chambers, Scarborough; released January 29.

Intended Dividend

Leonard John Smith, residing at 16, George Street and lately carrying on business at 3, Lower King's Road, both Berkhamsted, Hertfordshire. Proofs by February 19 to John Langman Poland, 29, Russell Square, London, W.C.1.

Dividends Declared

Albert Leach, 79, Colham Avenue, Yiewsley, Middlesex, lately residing at 16, Chevir Terrace and carrying on business at 4, Market Street, both in Otley, Yorkshire. First and final of 1s. per £, payable February 20 at the Official Receiver's office, 24, Bond Street, Leeds. Agnes Stevens, 23, Silver Street, Gainsborough, Lincolnshire. First of 5s. per £, payable February 6 at the office of the trustee, Lloyds Bank Chambers, St. Benedict's Square, Lincoln.

WARE THESE RAMPS!

"Coming" Districts Customers in

ALL sorts of "smart" dodges are being worked in connection with the many new housing schemes that are being started up on all sides.

Some are aimed at tradesmen who have an eye on the "coming districts" from the new-customer point of view.

* *

*

A genuine scheme often met with is for bona-fide printing firms to have this arrangement with the builders concerned -they prepare booklets and guides boost--they prepare booklets and guides boost-ing the new estate. Advertisements are sought from traders, and copies of the guides are circulated among incoming tenants. This may be a very useful ser-vice, for, sometimes, shop premises are the last to go up, and adjacent traders are helped to get the business.

But there are not a few catch-penny offers, where the scope and nature of the constructional work are much exaggerated.

James Henderson, 1, Cambridge Avenue and carrying on business at 17a, Park Avenue, both Whitley Bay, Northumberland, First and final of 2s. 74d, per £, payable February 11 at the Official Receiver's office, 81, St. Mary's Place, Newcastle-upon-Tyne. Lucy Thornton, 17, High Street, and trading as Thornton and Boothroyd at 94, Commercial Street, both Brighouse, Yorks. First and final of 2s. 73d. per £, payable February 12 at the Official Receiver's office, Hallfield Chambers, 71, Manningham Lane. Bradford.

Release of Receiver

Colwell insulating Co., Ltd., formerly David J. Patton, Ltd., 45. Colwell Road, London, S.E.-H. J. R. Harding, of "Lansdown," Foley Road. Claygate, ceased to act as Receiver and Manager on January 10.

Appointment of Receiver

Clang, Ltd., Crown Yard, Cricklewood, London. N.W.-R. A. Rodgers, of Dominion Buildings, South Place, London, E.C., was appointed Receiver and Manager on January 25 under powers contained in debenture dated January 27, 1934.

Release of Liquidator B. and W. Radio, Ltd., Avenue Works, Hanover Park, Peckham, London S.E.15. Liquidator, John Barwick Thompson, 33, Carey Street. Lincoln's Inn, London, W.C.2; released January 31.

Increases of Capital

Forbes Plastic Mouldings, Ltd., Bridge Works, Stamford Bridge (West), Yorks.—The nominal capital has been increased by the addition of £4,000. in £1 shares beyond the registered capital of £2,000. Universal Signature Tunes, Ltd., 11, Park Street, Lytham, Lytham St. Annes.—The nominal capital has been increased by the addition of £5,000 in £1 ordinary shares beyond the registered capital of £1.000

 \pounds 1,000 **Varsity Eliminator Co., Ltd., Tower Works,** Rectory Grove, Old Town, Clapham, London, S.W.— The nominal capital has been increased by the addition of £300 in £1 ordinary shares beyond the registered capital of £100.

Mortgages and Charges

Limit Engineering Co., Ltd.—Debenture, charged on deeds and documents relating to 15-29, Windsor Street, Essex Road, London, N., and the company's undertaking and other property, present and future, including uncalled capital, dated January 22, to secure all moneys due or to become due from the company to Lloyds Bank, Ltd. Whitaker Electric Co., Ltd., 24, Percy Street, London, W.—Debenture dated January 5 to secure £400, charged on the company's undertaking and property, present and future, including uncalled capital.

capital. Wiral Electric, Ltd., 52. Town Lane, Rock Ferry, Birkenhead.—Particulars filed of £100 debentures authorised January 9, charged on the company's property, present and future, including uncalled capital, the amount of the present issue being £40.

office, Ha Bradford.

£1 000

capital.

The canvasser talks airily of "thousands of houses" to come, when the actual fact is that, even though a fairly large number are eventually contemplated, the builders concerned have limited finances, and it may be years before more than a few

dozens show up. See that the real position is set out in black and white on any order-form signed, for it is no use telling a judge that the person who called on you "said so and so," and expecting to get back the money you have paid over for space.

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In any event, there is no reason why the up-to-date dealer whose premises are located within a reasonable distance of a growing new estate should not do his own direct advertising, either by calling in person upon the tenants as they take over, or by sending them particulars of his stock.

R. A. P., Ltd., 13, Creek Road, East Molesey.— Issue of January 30 of £100 debentures, part of a series already registered.
Ultra Electric, Ltd., Erskine Road, Chalk Farm, Iondon, N.W.3.—Debenture, charged on the com-pany's undertaking and property, present and future, including uncalled capital, dated January 23, to secure all moneys due or to become due from the company to Barclays Bank, Ltd.
Warsity Eliminator Co., Ltd., Tower Works, Rectory Grove, Old Town, London, S.W.—Debenture, died January 28, to secure £200, charged on the company's undertaking and property, present and future, including uncalled capital.

and future, including uncalled capital. Satisfactions Hill and Co. (Radio), Ltd., 874, Christchurch Road, Bournemouth.-Satisfaction to the extent of £100 on November 8, 1934, of debentures authorised June 23, 1932, and registered June 29, 1932, securing £1,000. Notice filed January 25, 1935. Varsity Eliminator Co., Ltd., Tower Works, Rectory Grove, Old Town, London, S.W.-Satisfac-tion to the extent of £100 on January 25, of deben-tures authorised September 25, and registered september 26, 1934. According to the register of mortgages, the debentures registered September 26, originally secured £1.000. C. F. Struthers, Ltd., formerly Struthers, Mark-nam, Ltd., 80, Barnsley Street, Hull.-Satisfaction to the extent of £1.500 on January 12 of debenture dated April 19, 1932, and charge dated December 2, 1932, respectively. Winding-Ub Order

Winding-Up Order

Electra (Leeds), Ltd., 137. Regent Street. London, W.1.-Presentation of petition January 3; order dated January 25.

Private Arrangement

Mrs. S. Barnard, trading as Philip Barnard and Co., 42. Maiden Lane, Southampton Street, Strand, London, W.C.2.—A meeting of creditors was held recently at the above address, when Mr. H. Lever, C.A., presided. A statement of affairs was submitted which dis-land the bilities of 0.000 Jzc. Jud. of which

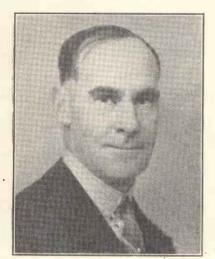
A statement of affairs was submitted which dis-closed liabilities of \pounds B89 17s. 11d., of which \pounds 627 5s. 8d. was due to the trade; there were loan creditors for \pounds 216 17s. 5d. and sundry creditors' claims amounted to \pounds 45 14s. 10d. The assets con-sisted of cash at bank, \pounds 4 18. 11d.; sundry debtors, good, \pounds 91 2s. 7d., estimated to realise \pounds 85; stock of wireless parts and electrical equipment, cost, \pounds 225, put down at \pounds 90; and furniture and fittings, cost \pounds 57, expected to produce \pounds 12, making total assets of \pounds 191 1s. 11d., from which had to be deducted \pounds 68 8s. 6d. for preferential claims, leaving net assets of \pounds 121 12s. 5d., or a deficiency of \pounds 767 4s. 6d.

deducted 258 88, of 10 preferential carine, for the net assets of £122 138, 5d., or a deficiency of \pounds 767 48, 6d. It was decided that the matter should be dealt with under the deed of assignment already executed to Mr. H. Lever, as trustee.

Voluntary Liquidation

Modern Appliance Distributing Co., Ltd., Man-chester.—At the statutory meeting of creditors a statement of affairs was submitted which showed ranking liabilities of £173 13s, 7d. After allowing £22 4s, 10d. for preferential claims the net assets were £107 17s. 1d., or a deficiency of £65 16s. 6d.

(Continued on opposite page.)



JOHN HIRST

Managing Director of Hirst, Ibbetson & Taylor, Ltd.

Ltd.
(Continued from opposite page.)
The issued capital was £100, and the deficiency as
regarded the shareholders was £165 fos. off.
The vas reported that the company was formed,
in September, 1934, with the object of selling electrical equipment and the wiring of private houses
and shops on its own hire-purchase plan, with the
support of a financial trust house. After the company
was formed, however, the financial house did not
support the scheme. This compelled them to abandon the proposed programme of house and shop
in a position to have approved hire-purchase agreements discounted for cash, the company had to
depend on manufacturers' H.-P. schemes for their
electrical equipment and receivers, with consequent
to obtain an efficient outside selling organisation.
Recently a creditor commenced proceedings
atory luquidation should take place.
A resolution was passed confirming the voluntary
ind. Co. 47, Mosley Street, Manchester, as liquidator.
Thester.—The creditors met recently at Manchester,
focus field the chair. A statement of affiars was
submitted which showed ranking liabilities of
\$2,505 los. 2d.; cash claims, £77 5s.; bankers,
\$2,605 los. 2d.; cash claims, £75; and motor
as the object, £2,255 lins, cash in hand, £32 6s. 7d.;
book dots, £2,255 lins, cash in hand, £32 6s. 7d.;
book dots, £2,255 lins, cash in hand, £32 6s. 7d.;
book dots, £2,255 lins, cash in hand, £32 6s. 7d.;
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book the £2,255 lins. an et profit of £2.7d, se. 5d.;
book dots, £2,255 lins, leash in thathe

Which had resulted in substantial losses being incurred.
The deficiency, as regarded the shareholders, was £11,023, which was explained by the losses sus-tained on the trading and the depreciation written off the assets in the statement of affairs.
It was decided that the voluntary liquidation of the company should be continued with Mr. W. S. Berry, of A. G. Deakin and Co., C.A., Manchester, as liquidator, together with a committee consisting of Mr. A. T. Eaves, and the representatives of Electrical and Musical Industries, Ltd.; Duwes, Ltd.; British Electrical Resistance Co., Ltd.; and the Hewittic Electric Co., Ltd.
Principal creditors include:-British Electric Resistance Co., Ltd., £341; British Insulated Cables, Ltd., £101; Chloride Electric Storage Co., Ltd., £120; Columbia Gramophone Co., £245; Dulcetto Polyphon Co., Ltd., £105; Duwes, Ltd., £433;

COUNTY COURT JUDGMENTS

COUNTY COULT The following list of judgments given in the founty Courts of England and Wales relating to the Radio Industry has been furnished by the Registry of Court Court Judgments. Only judgments of, or exceeding, £10 are re-corded on the register, and no differentiation is made between actions for debts and disputed cases. In certain instances the judgment is entered against a defendant acting in a representative capacity. The appearance of a judgment in this list does not necessarily indicate that the amount still re-mains unpaid, and it should be underslood that some of the indyments man have since been settled or paid. The name of the court is in brackets. Adams, Henry, 1, Pennat Street, Elbbw Vale, Mon. (Mayor's and City of London.) £12 14s. 7d. Junuary 2. Methods, Gonzactors (a firm), Cynmer, Port Talbot, Glannorgan. (Westminster.) £13 8s. 10d. December 21. Burnan, F., 215, Bitlerne Road, Southampton. (Bourneouth). £20 4s. 6d. January 2. Turis, Henry, 117, High Street, Dovercourt, Essex. (Willesden.) £18 8s. 6d. December 19. Tag, R. E., 30, Sydney Road, Blackley, Man-chester. (Manchester.) £10 1s. 6d. January 10. Denstow, A. S., Market Square, Crewkerne, Sourset. (Birmingham.) £21 7s. 11d. December 19.

Ensign, Lfd., £241; Fielding and Co., £175; Falcon Supply Co., £100; Gramophone Co., Ltd., £264; General Electric Co., Ltd., £1,555; Hewittic Electric Co., Ltd., £404; Jackson and Co., Ltd., £304; Kolster-Brandes, Ltd., £115; G. A. Nicholas and Co., £105; Philco Distributors, £247; John Shaw and Sons, £266; Tudor Accumulators, Ltd., £134; Austin Walters and Son. Ltd., £277; Wholesale Fittings Co., Ltd., £103; and E. G. White, £309.

Bankruptcies

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Elburn, S. F., 56, Market Street, Watford, Herts. (Westminster.) £14 6s. 6d. December 31.
Freeman, 47, St. John Street, Tuibridge Wells, Kent. (Shoreditch.) £14 17s. 9d. December 31.
Garner, H. A., 108, Wellingborough Road, Northampton. (Cambridge.) £15 Lls. 1d. Jannary 5.
Gladiator Welder Sets Co. (a firm), 18, Leicester Road, Sale, Manchester. (Edmonton and Wóod Green.) £21 Lls. 2d. December 18.
Hackney Radio and Electrical Supplies (a firm), 20, Mare Street, London, E.8. (Birmingham.) £11 8s. 10d. December 31.
Heath, F., 39, Handysides Arcade, Percy Street, Newcastle - upon - Tyne. (Newcastle - upon - Tyne.) £18 15s. 4d. Jannary 5.
Pauley, G., Frampton Way, Totton, Hants. (Sonthampton.) £11 Hs. January 7.
Rowbotham, trading as Rowes Radio and Electrical Stores, 280, High Street, Sutton, Surrey. (Shoreditch.) £17 10s. 10d. January 1.
Slarin, L., 71, Gakley Square, Mornington Orescent, London, N.W. (Clerkenwell.) £28 2s. 8d. December 19.
Van-islese, J. P., 31. Clarendon Road, Whalley

December 19.
 Van-Islese, J. P., 31, Clarendon Road, Whalley Rauge, Manchester. (Southampton.) £15 6s. 5d. January 8.

Mardis, Manhoster, (Southampton) 200 Great.
 Wards Radio Stores (a firm). Railway Terrace, Rugby, Warwicks. (Birmingham.) £18 14s. 7d. December 31.
 Williams, D., 55, High Street, Abertridwr, Glam. (Edmonton and Wood Green.) £14 J3s. 6d. December 11.

BUSINESS NAMES

The following businesses have been registered under the Business Names Act of 1916. The trading name is given in heavy type. In brackets is the name of the pro-prietor or proprietors. The date is that of registration registration.

Abbott Bros., 303, Thorold Road, Ilford (Harold Benjamin Abhott, at the above address). Jan 15. Averyhill Cycle Engineers, 65, Averyhill Road, New Eltham, London, S.E.9 (Rodney Robert Gardner, A.M.I., at the above address). January 15. Clarke and Co., 3, Victoria Road, Deal (Thomas Newton Stammers, 26, Gladstone Road, Deal). Newton St January 18

Lockwood, T. H., 11, Stanley Grove, Longsight, Manchester (Mrs. Ada Lockwood, at the above address). January 2.

address). January 2. Ostler, E., 98 and 100, High Street, Redbourn, Herts (George William Hoare Ostler, at the above address). January 7. Radio Finance Co., 3 and 5, King Street, Oldham, Lancs (Frank Thompson, "Annisholme," Thorn Road, Bramhall Cheshire). January 16.

Road, Bratman Cheshiel, Jahuary Io. Radio Repairs, 141, Dane Road, Coventry (Evelyn Louise Julian, at the above address). January 16. Routledge's Radio, 73, Commercial Street, Willing-ton, Co. Durham (Percival Routledge, at the above address). January 14.

ron, Co. Jurnan (Percival Robucdge, at the above address). January 14.
St. James's Radio Co., 43, St. James's Palace, Piccadilly, London, S.W.1 (E. W. Parish, 3, Strat-ford Mansions, South Molton Street, London, W.1; Kenneth A. M. Tanner, 32. Lorne Gardens, Hanover Gate, London, N.W.3, and Mrs. O. F. Kelly, 40, Wendover Court, Finchley Road, 'London, N.W.3). January 7.
Sunley's Garage, 14, St. Mary's Place East, New-castle-upon-Tyne (Walter Robinison, sonr., "Chad-leigh," 1001, Shields Road, Walkerville, Newcastle-upon-Tyne). January 14.
White's Radio Service, 226, Smithdown Lane, Liverpool (Arthur Danicls, 13, Britannia Avenue, Wavertree, Liverpool, 15).. January 17.

NEW COMPANIES

Acratone Radio, Ltd.—Private co. Capital £100. To carry on the business of wireless engineers, repairers and manufacturers of, dealers in and agents for radio receiving sets, etc. Directors: Richard A. Lnth and James C. Kerr. Registered office: 115, St. Vincent Street, Glasgow. Coastal Radio, Ltd.—Private co. Capital £500. To carry on the business of manufacturers and repairers of and dealers in radio, telephony and telegraphy, etc. Subscribers: H. J. Johannesen, Polarlys, Ash Tree Avenue, Grimsby; and A. Red-path, 103, Brunswick Street, Edinburgh. The first directors are not named. Stockport Battery Service, Ltd.—Private co

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BRANCH REPORTS

BRIGHTON Supports the **Fighting Fund**

BRIGHION Supports the Fighting Fund. MEMBERS of the Brighton branch of the W.R.A. gave practical evidence of their support for the Fighting Fund on Tuesday, when the monthly branch meeting was held at the Wattle Lounge, Preston Street. Shoften the close of the meeting, the Chairman (Mr. J. Fielding) reminded the members that they had agreed to sup-port the fund. There was an immediate resonse—in cash. Earlier, the Chairman had reported that had an interview with Mr. Goodfellow, of Ever Ready. Mr. Fielding said that as a result of that interview he understood that there would be a definite readjustment of the Ever Ready "Radio" battery discount, which should be favourably received by dealers. The Secretary stated that in reply to a complaint which, on behalf of the branch, he made to a national manufacturing firm, that firm had reported that they had ceased to supply sets to a local co-operative stores. A firm of factors had written stating that they would discontinue supplies to a Port-slade "dabbler." A prospective member, whose premises to make alterations and asking advice on this point. The necessary information is to be supplied. The chairman and secretary are to inspect

supplied. The chairman and secretary are to inspect

another shop. Mr. A. J. S. Russell drew attention to a suggestion from the Birmingham branch that the W.R.A. should be absorbed by the E.C.A. The Chairman said he could not see what

E.C.A.
The Chairman said he could not see what Birmingham hoped to gain, since preferen-tial treatment would be given only on cables, lamps and accumulators.
"It seems to me like trying to rob radio of the right to be an individual trade. We are definitely not a branch of the electrical trade," said Mr. Fielding.
Mr. Tingley said that this was hardly a matter for am individual branch to bring forward. It was a question that, if dis-cussed at all, should have been considered by representatives of W.R.A. and the E.C.A.
The branch decided to take no action in the matter for the time being.
One new member was admitted at the meeting, bringing the membership to 43.
Supporting the chairman at the meeting were the secretary and about 20 members.
The Chairman reported that details were not yet complete in regard to the proposed combined advertising campaign in the local Press. Further details will be given at the next meeting.

next meeting.

CARDIFF Down On Cheap Batteries

Cheap Batteries A LENGTHY discussion on low-discount batteries took place at a meeting of the Cardiff W.R.A. om January 22. It was suggested that dealers should not stock such batteries. Satisfaction was expressed at the action of Mr. Capel, of Capel's Wholesale, who had notified the branch that his firm had re-fused supplies to a Cardiff ships' chandler. The branch is to give full support to Mr. Jones, of Marconiphone, who is organising a Marconiphone dance. This will be held at the Park Hotel, Cardiff, om February 27. A new member, Mr. Bloom, of Bridgend, was accepted for membership. It was agreed that every effort should be made to obtain new members, and that each of those present be given a district to work.

work.

New officers were proposed for election at

the next general meeting. Those proposed were: Mr. Fletcher, as chairman; Mr. Price, as vice-chairman; Mr. Phillips, as secretary, and Mr. Paul, as treasurer.

LONDON AREA Considers Financial Questions

THE monthly meeting of the London and Home Counties W.R.A. Area Council took place on January 31 at First Avenue House, London, W.C.I. There was a re-presentative gathering of branch delegates, together with Mr. A. E. Betambeau, the W B A organizer

together with Mr. A. E. Betambeau, the W.R.A. organiser. The Hon. Secretary reported the arrange-ments made by the National Council for the financial organisation of branches and area councils subject to all members' subscrip-tions being paid direct to head office. Grants to live branches and areas would be made within seven days of meeting of the National Council.

be made within seven days of meeting of the National Council. Delegates generally were of opinion that the suggested financial help was insufficient for area requirements, but it was pointed out that unless a revision of the annual subscription was made nothing more could

be anticipated. Reports on an interview with Mr. Gavin D. Morton, of the Radio Centre, Haymarket, were dealt with. In view of the fact that the National Council were dealing with



(February 9-February 23.)
Cambridge W.R.A., Tuesday, February 12, 8 p.m., Allin's Garage, Bridge Street.
Lincoln W.R.A., Tuesday, February 19, 7.45 p.m., Albion Holel.
Manchester W.R.A., annual meeting and dinner, Wednesday, February 20, at 4.30 p.m., and 6.30 p.m., respectively, Grand Hotel, Man-chester.
North East Area Council, Tuesday, February 19, 2.30 p.m., Haymarket Theatre Club, Newcastle.
North East Area Council, Tuesday, February 19, 2.30 p.m., Delhi Hall, 489, Holloway Road, London, N.7.
Notta Lunch Club Annual Dinner, Wednesday, Feb-ruary 20, 7.45 p.m., for 8.15 p.m., Victoria Station Hotel, Nottingham.
Reftord and Worksop W.R.A., annual meeting, Tuesday, February 12, 8 p.m., Lion Hotel, Worksop.
Sheffield Lunch Club, annual meeting, Wednesday, February 13, 1 p.m., Grand Hotel.
Southend, Westeliff-on-Sea and District Chamber of Trades, Tuesday, February 19, 8.15 p.m., Cham-ber of Trade Offices, Victoria Avenue.
Stoke W.R.A., annual dinner and social, Thursday, February 21, Carlton Tearooms, Queen's Road, Watford.
W.R.A. National Council, Wednesday, February 13, 2.15 p.m., First Avenue Honse, High Holborn, 2.15 p.m., First Avenue Honse, High Holborn,

Watlord.
 W.R.A. National Council, Wednesday. February 13, 2.15 p.m., First Avenue House, High Holborn, London, W.C.1.

Future Dates

A.C.M.I.M. Annual Dinner, Tuesday, March 19, Park Lane Hotel, London, W.I. Brighton W.R.A., Tuesday, March 12, 8 p.m., Wattle Lounge, Preston Street, Brighton. British Industries Fair, February 18-March 1, at Ourmpia

British industries Fair, February 18-March 1, at Olympia.
Bury W.R.A., Tuesday, February 26, 5.30 p.m., dinner, dance and whist drive, Boar's Head Hotel.
Manchester Radio Trades Luncheon Club, Monday, March 4, 12.45 p.m.
Newcastle and District W.R.A., March 5, 8.30 p.m., Theatre Club Room, Haymarket, Newcastle.
North Western W.R.A. Council, Tuesday, February 26, 2.30 p.m., Nag's Head Hotel, Manchester.
Oldham W.R.A., Thursday, February 28, 10.30 a.m., Café Monico, Union Street.
Planoforts Manufacturers' Association Annual Dinner, Thursday, February 28, Trocadero Restaurant, London.
Sheffield Lunch Club, dinner, dance and cabaret in aid of the Wireless for Hospitals Fund, Wednesday, February 27, 7 30 p.m., Grand Hotel.
Sunderland and District W.R.A., Tuesday, March 4, 8.30 p.m., North of England Café, Fawcett Street, Sunderland.
W.R.A. Annual General Meeting, Wednesday, March 27, 3 p.m., First Avenue House, High Holborn, London, W.C.1.

both this matter and the cheap battery question, it was agreed that no useful pur-pose would be served in dealing with the subjects at this stage. Mr. Gunn, of the Essex and East London

Mr. Gunn, of the Essex and East London branch, reported much activity in his area in the purchase at Trade prices by private individuals of current models of mains re-ceivers by well-known manufacturers. Certain lines of action were decided upon.

NEWCASTLE Discusses Local Show Places

A the monthly meeting of the Newcastle W.R.A. on Tuesday in the Club Room, Haymarket Theatre, Newcastle, Mr. Dodds, Cashing and Market Theatre, Newcastle, Mr. Dodds, Cashing a Radio Exhibition in Newcastle whibition Organiser, of Edinburgh. The Bentley went into the possibilities of holding a Radio Exhibition in Newcastle under the auspices of the local W.R.A. branch. After the dealers present had fired all the questions they could think of at Mr. Bentley, Mr. Tom Payne said, in moving a vote of thanks: "Mr. Bentley seems to me to be a man who knows what he is talking about. I am delighted to have met him." The members then discussed the cheap battery business and the secretary was in-structed to write to those members who were not present informing them that the branch had moved a resolution which said they would not handle the cheap batteres. The members were asked to attend the next Area Council meeting of the W.R.A., which was to be held in Newcastle at the second, Haymarket Theatre, Newcastle, at 20 p.m., on February 19. The some general discussion, it was "tickted" business that is now being extended to the Radio Trade was not a desirable way of doing business.

OLDHAM on Demonstration Set Ramp

HOW to counter the activities of persons. How to conner the activities of persons purposes from dealer after dealer in suc-cession, was discussed by members of the Oldham W.R.A. at their meeting on January 31. It was revealed that some persons made a

Oldham W.R.A. at their meeting on January 31. Twas revealed that some persons made a practice of approaching dealers for the use of sets professing to have an interest in the purchase of one. Having made a series of tests, the receivers are returned to the dealer, but no sale results. Twas alleged that one person in the town was known to have had the free use of one, and even then did not make a purchase. The suggestion was made that dealers, in the in own interests, should keep a close the constrations. To be used to be the theorem of the town of the own interests, should keep a close the constrations. To lowing a discussion on valve guarantees and replacements, it was agreed to raise the matter at the next meeting of the North-Western Area Council. The difficulty, it appears, arises from the fact that when faults are discovered in valves the manufacturers sometimes decline to make a placements on the ground that more than a reasonable time has elapsed since the valves had been sent out from the factory of the twalves had been sent out from the factory of the valve manufacturers that dealers. The discussion culminated in a resolution will go forward to the North-Western Area Council for consideration. The recent controversy over high-tension batteries was reviewed and the rearrangement in retail prices and the transgement in retail prices and the rearrangement in retail prices and coverage provided by the dealer. M. J. E. Wildbore submitted the new forms of guarantee and explanations as to the service and coverage provided by the dealer.



A full-colour "talkie" introduction to the Marconiphone Jubilec range has been produced for dealers. The hire charge is 15s. a week. The film is 130 feet long. The picture above shows "shooting" in progress.

for quantities of the folder, which will be distributed to buyers of new receivers. It was complained that an Oldham firm of coal dealers were now selling receivers. It was decided to refer the matter to the North-Western Area Council and to supply information with the object of tracing the source of supply

information with the object of tracing the source of supply. Some trouble has been experienced by Oldham dealers owing to the duplication of guarantee cards. It was alleged that in one case six guarantee cards thad been issued in respect of one receiver. The set changed hands six times, and as the seller did not hand over the card to the next owner the hand over the card to the next owner, the latter obtained a duplicate. It was resolved to request the set manufacturers to exercise caution with regard to the issue of duplicates.

ROCHDALE Wants Northern **Television Transmitter**

HAT radio dealers of Lancashire are

Television Transmitter THAT radio dealers of Lancashire are taking a serious interest in the possi-bilities of television is evident from the discussion that took place at Rochdale W.R.A. on Monday morning. With reference to the proposal to estab-lish one experimental station (at London), it is felt that a fairer procedure would be to have simultaneous experiments in Man-chester and London, so as to create equal opportunities for dealers and listeners in the north and south country. M. R. Sugden, who introduced the dis-cussion, referred to the amount of publicity which had been given to television by the daily newspapers following the issue of the Television Committee's report. Something should be done by the Lanca-shire branches of the W.R.A. through the North-Western Area Council, to impress W.R.A. headquarters with the B.B.C., to en-sure adequate consideration being given to the claims of the North. Mr. D. Howarth, who presided, pointed of representatives from 10 areas, and if Manchester put forward a claim for an ex-primental station it was probable the others would do the same, and then where would the the with share the with a station it was probable the others would do the same, and then where would be the would be than Manchester would be the the state the weight of the state would be the same the same than then where would they be? He understood that Manchester would be the the state the weight of the state would be the the same than the manchester would be the the same than the manchester would be the the same the properimental station it was probable the others would be the same the manchester would be the the same the the same the would be the the same the transmitter would be the the same the transmiter would be the the same the tresther the same there the

they be?

they be? He understood that Manchester would be the first place to receive consideration after London, where, after all, within 25 miles there was a much bigger population than within 25 miles of Manchester. Finally, a resolution was adopted declar-ing that one transmission station was in-adequate for the needs of the country, and

in equity another should be provided so as to enable Northern dealers and the millions of Northern listeners to share the experi-ences of the preliminary transmissions. It was also remarked that when television did become commercial, London would be placed in a position of great advantage over Laneashire and the other Northern terri-tories, by virtue of the priority given it. The resolution urged the W.R.A. to make representations to the authorities on the lines indicated. lines indicated.

lines indicated. Mr. D. Howarth gave a report on the last meeting of the W.R.A. Council and made particular reference to financial matters. Discussion also took place on the definition of a dealer, reference being made to the B.V.A. and R.W.T.A. definitions. It was stated that some of the big manufacturers were anxious to see a definition as straight and as simple as possible. No resolution on this matter was moved. Regret was expressed that Mr. J. Mitchell

on this matter was moved. Regret was expressed that Mr. J. Mitchell had withdrawn from membership, especially as he had been one of the founder members and had put in so many years of useful service.

service. A new member of the branch, who had transferred from another district to Roch-dale, expressed his appreciation of the work of the Rochdale W.R.A. He confessed that when, after starting in Rochdale, he started drawing the full cash price for goods, he found it a most unusual experience and attributed this to the influence of the Rochdale W.R.A.

STOKE Annual General Meeting

THE annual meeting of Stoke-on-Trent W.R.A. was held at the Saracen's Head Hotel, Hanley, on Tuesday, when the chairman (Mr. J. Ridgway) presided, supported by the secretary (Miss G. Blades). A discussion on the battery question followed a report by the Secretary that some members had failed to observe the resolu-tion passed at the last meeting. Certain names were mentioned, and the Secretary strongly criticised this disloyalty, which, she said, queered the pitch of the W.R.A. in dealing with wholesalers and manufac-turers. turers.

The meeting then heard the outline of a scheme for service from Mr. Oakes (of Oakes and Liversage, Burslem), in which he showed that service could be definitely profitable.

profitable. The members expressed a lively interest, and Mr. Oakes promised to give full details of the scheme and to bring service cards to the next meeting. The meeting then proceeded to elect officers for next year. Mr. Ridgway was re-elected chairman and Mr. F. Bew, of Burslem, was elected vice-chairman. There was a long discussion over the



BRANCH REPORTS

election of a secretary, Miss Blades in-timating that she was not prepared to stand for re-election, having held office for two years. Eventually, Mr. J. Templeman, of Hanley, was appointed. Mr. Hammersley was re-elected treasurer, and Mr. Oakes, auditor. The Committee will consist of the officials and Mr. Woods and Mr. Alcock.

SUNDERLAND Moves **Against Dabblers**

Against Dablers TRONG efforts are being made by Sunderland W.R.A. to preserve the frade for the legitimate dealer, and at the Forwary meeting, the Chairman (Mr. W. R. Drewery) had the full and hearty support of the big attendance when he moved a solution on the matter. The proposed a motion deprecating trading in wireless goods by anyone who does not despecial protests against the granting of dis-counts to clubs, provident associations and adding organisations. This motion also called upon manufac-turers to do their utmost to prevent this and other types of unfair trading. Several instances of this type of unfair formpetition were given, and during the biscussion one member announced that he intended to cancel an agreement which he had with a prominent club. The Chairman and Secretary presented intended to cancel an agreement which he had with a prominent club. The Chairman and Secretary presented intended an informative reports on the formother stor not announcing to members, forough the post, the fact that the associa-tion had placed an embargo upon certain the resolution was that THE BROADCASTER we such detailed reports of meetings that he considered that any further intimation was unnecessary.

he considered that any further intimation was unnecessary.

BURY ASSOCIATION'S DINNER Bury and District Wireless Retailers' Association will hold a dinner, whist drive and dance at the Boar's Head Hotel, The Rock, Bury, on Tuesday, February 26. The secretary of the Association is Mr. J. H. Monks, of 180, Princess Road, Bury, and the chairman, Mr. J. H. Smith, of Smith and Son, Stanley Street. Mr. Bennett, who has filled the office of treasurer, has resigned following his with-drawal from the business in Union Square with which he was connected. He is the oldest dealer in the town, having been en-gaged in the business 16 years. He intends to take up residence im the South of England. England.

England. The principal issue that has been engaging attention in the town recently has been the prices and discounts on high-tension batteries. Members decided to promote the sale of a cheap line of batteries, which they have labelled with the name of "Pep."

EDINBURGH RADIO DANCE

EDINBURGH KADIO DANCE The members of the Edinburgh branch of the Scottish Radio Retailers' Association held their annual dance in the Wellington and Traquair Rooms, Maximes, Tollcross, Edinburgh, on January 30. It was a most successful gathering, attended by about 150. Mr. R. B. Donaldson, chairman of the Association, welcomed the guests, and in-timated that it was proposed to hold a Radio Trade dance towards the end of March. March.

31

The Broadcaster and Wireless Retailer

SOUTHEND'S NEW ASSOCIATION

RADIO SECTION OF CHAMBER OF TRADE

A meeting of Southend radio dealers on fuesday at the Southend Chamber of Trade, victoria Avenue, made Association news. A few months back the local branch of the W.R.A. was re-formed and meetings have been held since with regularity. There has existed, however, from the first an undercurrent of feeling that the local chamber of Trade could act efficiently in all matters that concerned local radio. Mr. L. V. Bridge, who had acted as secre-tary for the organisation during the past for the formation of a Radio Section of the Southend, Westellifton-Sea and District. Chamber of Trade. Mr. B. Vastellifton-Sea and District. Chamber of Trade. Mr. B. C. Cavangh, was a force to be reckoned with. The Chamber offered services of an in-timate character, such as a black list, that for local purposes was unique. The Chamber was a protective body as well as a negotiating body whose record stood high. It was almost impossible to trade in South-end without being a member of the Chamber. Chamber.

Fighting Policy

That being so, why not form a radio sec-tion of it at a subscription which would cover working expenses, leaving those mem-bers who still wished to remain within the W.R.A. freedom to do so? With minor modifications the suggestions of Mr L V Bridge met with support

With minor modifications the suggestions of Mr. L. V. Bridge met with support. The new Association was forthwith created, its title to be the Radio Section of the Southend, Westeliff-on-Sea and District Chamber of Trade. The offices are at Victoria Avenue, and the officials are: Chairman, Mr. S. H. Davis; treasurer and secretary, Mr. L. V. Bridge; minute secretary, Mr. H. G. White. The subscription is to be 10s, per annum. A fighting policy was agreed to.' The 50 non-member dealers within the area were divided up between those present, who pro-mised each to make it a personal matter to rope in his quota. Various suggestions were discussed with the object of popularising the new Associa-

the object of popularising the new Associa-

tion. A dinner and a dance, a regular lun-cheon fixture, instructive talks after the business meetings—these are each to be examined and reported upon.

United Action

Mr. S. H. Davis warned the members that only by united action was it possible to stave off many of the dangers that faced them. He instanced the several attempts that had been made to plant a relay system upon the town upon the town.

It was also essential that they should get united upon many other points that seriously affected their bread and butter. Guarantees were a vital question. Southend dealers were in complete agree-ment that three months was ample. The public had greater confidence in the shorter period. It brought more money into the dealer's pocket, and being a square deal it introduced more new business. Service, it was agreed by those present. should be made to pay. The ethics of H.P. terms were discussed. It was argued that any dealer carrying his own H.P. must be his own law, but where that law was detrimental to the good of his fellows, the Association should take some action.

some action.

Strong comment was made upon the prac-ce of some Southend dealers making free tice of some installations.

Here again, it was asserted, unity could produce uniformity.



Marconiphone Extension Speaker

Supplies: Available. An extension M.C. speaker with many novel points in its design is being released to day by the Marconiphone Co., Ltd., of 210-212, Tottenham Court Road, London, W.1. It is known as the model 195 multi-

functional speaker. The speaker has been designed primarily for use with the 292 receiver, and contains a unit similar to that built into the receiver itself. It is also suitable for use with the 289 and 296 instruments and other receivers having low-resistance outputs. It is pointed out that the 195 speaker is not a universal model as it is not fitted with an input transformer.

MAGNET AND CONE.-High-sensitivity magnet of special design with a flux density of 8,000 lines per sq. cm. The cone is ellipti-cally shaped and constructed of metal-paper.

CONTROL.—A volume control built into the side of the cabinet is of the constant impe-dance type, and actually consists of three ganged potentiometers. There is also an automatic tone compensation device to ensure correct proportions of bass and treble at any volume.

TECHNICAL DATA .- Speech-coil impedance, 9-10 ohms at 800 cycles; speech-coil D.C. resistance, 8.5 ohms; max. speech input, 6 watts.

CABINET.—Large-sized, in figured walnut, with non-absorbent metal grille fret. Measurements, 15% in high, 18% in. wide,

Measurements, 15% in high, 1846 in. wide, and 10% in. deep. PRICE.—Eight guineas. H.-P. TERMS.—Deposit of 16s. 9d. and 12 monthly payments of 14s. If purchased with a 289 or 292 receiver on 18 months H.-P., the special terms are 21s. deposit and 18 pay-ments of 9a 6d. ments of 9s. 6d.

Gebescope Talkie Equipment

"Gebescope" is the new trade name adopted by G.B. Equipments, Ltd., of Film House, Wardour Street, London, W.1, for all 16 m.m. sound film equipments marketed by the firm.

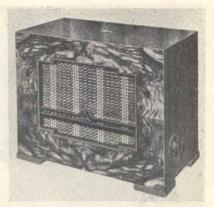
The G.B.E. range is therefore the Gebe-scope Model A, which was formerly the Home Model; the Gebesscope Model B, formerly the Standard Model; and the Gebescope Model C (Cinepro), formerly the B.A.C. model.

Regent Investment Sets for Retail Sale

The range of Clarendon receivers and radiograms, previously available only for renting, are now obtainable for direct sale from the makers, Regent Investment and from the makers, Regent Investment and Sales, Ltd., of Brent Crescent, North Circu-lar Road, London, N.W.10.

Three receivers and two radiograms are included in the range, there being both straight and superhet types. These are the first branded receivers to be offered by the company.

A four-valve band-pass chassis for univer-A four-valve band-pass chassis for univer-sal mains operation is used in two models. These are a receiver on which the retail price is £7 15s., or on H.-P., 10s. 6d. de-posit and 16 monthly payments of 10s. 6d.;



A volume control and a tone compensation, device are features of the Marconiphone 195: extension speaker.

and a radiogram selling at 15 guineas, or £1 deposit and 17 payments of £1. The superhet models utilise a six-valve, eight-stage chassis, and individual details are as follow: CONSOLE.—For A.C.-D.C. operation. Price 10 guineas, or 12s. 6d. down and 18 payments of 12s. 6d.

TABLE MODEL.—For A.C.-D.C. operation. Price £9 19s. 6d., or 12s. 6d. down and 17 payments of 12s. 6d. RADIOGRAM.—For A.C. only. Price 18 guineas, or £1 down and 23 payments of £1.

C.A.C. Kit for Wireless World QA Set

Supplies: Available. A complete kit of parts for the Wireless World QA receiver is being marketed by the City Accumulator Co, Ltd., of 18-20, Nor-man's Buildings, Central Street, Louidon, E.C.1, to market at £9 10s. excluding valves. The C.A.C. chassis for this receiver has

been specified in the list of components, and this chassis, drilled and complete with valveholders eyeletted in position, retails at 17s. 6d.

362 Super Power Valve

A directly heated output triode delivering 6 watts is shortly to be released by the 362 Radio Valve Co., Ltd., of Stoneham Road, London, E.5. This is the PX25, on which the character-

istics are as follow :-

Filament, 4 volts 2 amps. Max. anode volts, 400; anode dissipation, 25 watts. Am-plification factor, 5; mutual conductance, 5. PRICE.—£1 retail.

Camel Accumulator

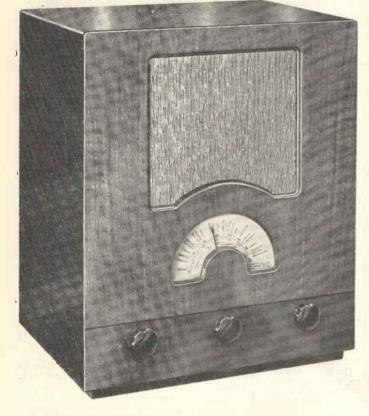
Supplies: Available. An L.T. accumulator specially designed for use with modern multi-valve battery receivers

use with modern multi-valve battery receivers has been placed on the market by Camel Accumulators, Ltd., of 9, Newington Cause-way, London, S.E.I. The type number D.F. has been given to the accumulator, which is a glass-container type fitted with a simple carrying handle. The rating is 90 ampere-hours at the 100-hour rate, or 45 ampere-hours actual. PRICE.—9s. 6d. retail

PRICE.-9s. 6d. retail.

Supplies of the Ultra 25 Console receiver are available as from to-day, February 9. The release date of the 25 Radiogram has not yet been fixed, however, It will be recalled these two models employ a four-valve A.C. superhet chassis with a rated output of 3.9 watts. Full A.V.C. and shadow tuning are provided. The console retails at 15 guineas.

Sound Reasons Why



"PORTADYNE" JUBILEE TABLE MODELS

Immediate delivery can be given of the following Receivers :

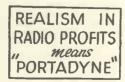
5-Valve ELECTRIC (A.C.) Super-Het. 5-Valve BATTERY Super-Het.

PRICED AT

£12.12.0 or on attractive H.P. Terms.

AN A.C./D.C. JUBILEE TABLE MODEL 5-Valve Super-Het. Receiver will be released late in February.

THE FOLLOWING MODELS will also be ready shortly :-- JUBILEE CON-SOLE A.C., JUBILEE CONSOLE A.C./ D.C., JUBILEE RADIOGRAM A.C. and JUBILEE RADIOGRAM A.C./D.C.



the "Portadyne" ubilee Range spells SUCCESS

- Not Mass Produced -each Set receives Individual Attention
- •Better Tone than any other receivers yet produced
- Greater Sensitivity and Selectivity than has ever before been obtained
- Design and Appearance that Compel Admiration



Write to-day for full details of these Profit-Makers

RECEIVERS

PORTADYNE RADIO.PORT ADYNE WORKS GORST RD. ACTON N.W.IO

PERHET

WHEN REPLYING TO ADVERTISEMENTS PLEASE MENTION "THE BROADCASTER."



A moulded cabinet, available in walnut or black and chromium, houses the Ekco AD36, an A.C.-D.C. set.

Low Price A.C.-D.C. Set by Ekco

Supplies : February 18. An appeal to a market not previously covered by E. K. Cole, Ltd., of Ekco Works, Southend-on-Sea, is being made by the Ekco AD36 receiver, a straight A.C./D.C. four in-cluding rectifier. to retail at 8 gns.

It is stated that this new model should not overlap the markets already served by the other Ekco models.

In describing the performance of the receiver, Ekco state that it will give excellent reception of the local station, Droitwich, and many Continentals. "In most localities the receiver is definitely more than a local set, it is added.

CIRCUIT.—The valves used are a Mullard SP13 H.F. amplifier, a Mullard HL13 detec-tor, a Mazda Pen.3520 output pentode rated at 2.5 watts, and a Standard Telephones Brimar ID5 rectifier. The screened pentode is choke capacity coupled to the tuned grid is choke to the tuned grid is choke capacity coupled to the tank grid circuit of the detector on the medium wave-band, and tuned transformer coupled on the long waves. R.C.C. coupling is used be-tween the detector and the output pentode. The ID 5 rectifier is indirectly heated.

Highly efficient coils are employed in the two tuned circuits, and there is a special compensating circuit to ensure constant selectivity.

Colour-Coded Scale

Colour-Coded Scale CONTROLS.—Three on face of cabinet, the centre large-sized knob for tuning being sur-rounded by a semi-circular full-vision inter-changeable scales, wavelength and station name calibrated. A pointer is used to indi-cate the tuning point. The wavebands covered are 200-500 and 900-2,000 metres.

Other controls on the face of the cabinet are volume and sensitivity, while on the left-hand side of the cabinet are the on/off switch and the wave-change switch, the latter being colour coded, red indicating long, and green medium waves.

SPEAKER .--- Eight-inch energised M.C. type.

MAINS SUPPLIES .- The series resistance is tapped to cover 200-250 volts supplies. On A.C. mains the set is for 40-100 cycles, Con-sumption on A.C. 70 watts, and on D.C. 65 watts.

As a safety measure the mains plug on the set must be removed before the back is taken off to make adjustments. A special cowl has been fitted inside the receiver to assist ventilation.

CABINET.—Attractive circular moulded de-sign with feet and controls symmetrically arranged. The fret is circular and has two bow-shaped metal bars running across the



opening. Alternative finishes of walnut and black and chromium are provided. PRICES.-Walnut 8 gns., with H.P. terms of 14s. 6d. deposit and 12 monthly payments of 14s. 6d. Black and chromium. 8¹/₂ gns., with H.P. terms of 15s. 6d. deposit and 12 monthly payments of 15s. 6d

Bulgin Universal Resistor for 13v. Valves Supplies : Available.

Supplies: Available. A universal enclosed version of the series filament resistor for 13-volt .3-amp. A.C.-D.C. valves has been placed on the market by A. F. Bulgin and Co., Ltd., of Abbey Road, Barking, Essex. The new model, type MR56, is similar in construction to the ordinary enclosed type,

being housed in a frosted aluminium case

It is, however, provided with terminals so that any number of valves from three to seven may be connected, and used on any mains from 200.250 volts.

Graham Farish Mum to **Stop Interference**

Supplies: Available. "Mum's the word," and "I'm going for my mum," are the slogans in but two of the teaser advertisements appearing in popular radio journals this week.

They are the first announcements to the public of a new product to be marketed by Graham Farish, Ltd., of Bromley, Kent. The Mum is the name of the product which is an interference suppressor, to retail at 2s.

It is to be widely advertised, and the public appetite is to be whetted by the continuance for some little time of the teaser announcements.

This suppressor consists of a rectangular moulding with lugs for mounting. There are two flexible leads for connection to interfering machinery and a terminal for connec-tion to an earth point

Each Mum is sold with a guarantee of replacement should it prove faulty. Full fitting instructions are enclosed with each Mum, and these describe with diagrams how it can be fitted, for example, to the mains outlet for the set, to the main supply fuze and switchbox, and to interfering apparatus.

For customers who experience difficulty in cutting out mains interference, whether or not they have fitted a Mum, Graham Farish have produced a questionnaire containing nineteen basic questions that seem to cover the whole field.

When filled in, these forms must be sent to Graham Farish, accompanied by a remittance of a shilling. 'After they have been investi-gated by experts, suitable advice will be sent. The Mum interference suppressor is now available to dealers, and is packed in striking

display boxes containing half a dozen.

Two Tungsram Double **Diode** Triodes

Supplies: Not fixed. Two double-diode triodes, one the DDT4 for four-volt A.C. receivers, and the other an American A.C./D.C. replacement type No. 75, are being produced by the Tungsram Electric Lamp Works (Great Britain), Ltd., of '72, Oxford Street, London, W.L.

DDT4 CHARACTERISTICS .- Filament 4 volts,



The chassis of the Union Radio superhet short wave converter, which has a self-contained power pack and is for A.C. mains operation.

.65 amp. indirectly heated; max. anode volts, 250; squelch point, -1.3 volt; average anode volts, 250; squelch point, -1.3 volt; average anode current, 4 ma; amplification factor, 30; slope, 3.6 ma./volt; impedance, 15,000; max. cur-rent for each diode, .8 ma.; base, English 7pin.

PRICE.-About 12s. 6d. TYPE 75 CHARACTERISTICS.-Filament, 6.3 volts, .3 amp.; max. anode volts, 250; triode bias, -2 volts; normal anode current, 1.8 ma.; bias, 2 volts; normal anode current, 1.8 ma.; amplification factor, 100; impedance, 91,000; slope, 1.1 ma./volt; base, small 6-pin. PRICE.--About 12s.

W.-B. Knife Switch

Supplies: Available. A single-pole version of the W.-B. quick-action double-pole knife switch has been placed on the market by the Whiteley Elec-trical Radio Co., Ltd., of Victoria Street, Mansfield, Notts. For use as an

For use as an aerial/earth switch, it incorporates a spark gap and has two contact blades set at a wide angle. The price is 10d. retail.

Alba Eighteen-monthly H.P. Terms

Arrangements have been made for certain Alba models to be available on H.-P. terms extending over eighteen months. Previously, only twelve-months' terms have been available.

At present the alternative terms have been fixed only for the 68 Lowboy, the 79 Radio-gram, and the 79 Auto-changer Radiogram.

Eventually, however, A. J. Balcombe, Itd., of 52-58, Tabernacle Street, London, E.C.1, hope to extend the terms to all the higher-priced Alba models.

Details of the terms are given below, and it should be noted that the deposit remains unaltered, and is the same for both 12-month and 18-month terms. MODEL 68 LOWBOY.—A.C. version : de-

posit, £2; 12 monthly payments of 25s. or 18 monthly payments of 17s. 6d. A.C.-D.C. version : deposit, £2; 12 payments of 27s. or

version: deposit, £2; 12 payments of 27s. or 18 of 19s. MODEL 79 RADIOGRAM.—A.C. version: de-posit, £2 15s.; 12 payments of 34s. or 18 of 23s. 6d. A.C.-D.C. version: deposit, £2 15s.; 12 payments of 38s. or 18 of 26s. 6d. MODEL 79 AUTO-RADIOGRAM.—A.C. version: deposit, £3 15s.; 12 payments of 48s. or 18 of 33s. 6d. A.C.-D.C. version: deposit, £3 15s.; 12 payments of 52s. or 18 of 36s. 6d.

No H.-P. terms are being arranged for the two recently introduced receivers of the Ever Ready Co. (Great Britain), Ltd., Hercules Place, Holloway Road, London, N.7. The company is leaving the matter so that dealers can make H.-P. arrangements themselves.



Coloured scale illumination and a "shadcwband" tuning device are features of the G.E.C. Shadow-band radiogram, which sells at 23 gns.

Shadowband Radiogram by G.E.C.

Supplies : February 18. The "Shadowband Five Radiogram" the name given to the latest instrument to be added to the range of instruments for A.C. mains marketed by the General Electric Co., Ltd., of Magnet House, Kingsway, London, W.C.2.

This new instrument is based on the Shadowband table superhet which was released early in January. In the radiogramo-phone the Shadowband tuner takes the form of a rectangular escutcheon opening mounted on the motor board just above the tuning scale.

CIRCUIT.—Five-valve superhet, the valve combination being heptode; I.F. amplifier; double diode triode second detector, A.V.C. valve and L.F. amplifier; output pentode rated at 3 watts; rectifier. Osram valves are employed throughout, these being 13 volt .3 amp types run in parallel and fed from a 13-volt mains transformer.

Band pass circuits are used for the aerial input, and the I.F. filters. The intermediate frequency is 125 kc. It is stated that the average sensitivity over the medium wave-band is some 10 microvolts.

CONTROLS .- There are four on the motor board to the right of the turntable and one on the front of the cabinet, the latter being for volume on either radio or gramophone. The motor board controls are tone and mains switch, tuning, operating a full vision rectangular scale calibrated with station names, sensitivity and wave change.

Coloured scale illumination is employed. red denoting that long waves are being re-ceived, green medium waves, and both colours for gramophone. The tuning point is indicated by a bar of white light.

AERIAL.—Ordinarily the set is designed for use with a 30-ft. external aerial. but there is provided a roll-up aerial to give reception from the more powerful transmitters.

SPEAKER.—A new type designed to give well-balanced reproduction is fitted. Pro-vision is made for connecting 7,000- to 10,000-

ohm extension speakers, while there is a key for silencing that in the set. GRAMOPHONE EQUIPMENT.—An induction

motor is used and it is fitted with automatic stop and start mechanism. The pick-up, of the bakelite housed type, is integral with the motor assembly.

MAINS SUPPLY.-Standard model. BC.3558, for 190/250 volts, 40/60 cycles. A 10-ft. mains cord is provided permanently fixed to the Power consumption, 80 watts on chassis.

chassis. Power consumption, 80 watts ou radio, 100 watts with motor in operation. SERVICING.—The design of the top deck and receiver chassis has been designed to permit easy servicing. The design of the top deck and receiver chassis has been designed to permit easy servicing. The design of the top deck and receiver chassis has been designed to permit easy servicing. The design of the top deck and receiver chassis has been designed to permit easy servicing. The design of the top deck and receiver chassis has been designed to permit easy servicing. The design of the top deck and figured veneer on the front surface being re-lieved by black inlays. Measurements are 34¼ in. high, 29¼ in. wide and 16¾ in deep. PRICE.—Standard model, 23 gns. H.-P. terms, 42s. deposit and 12 monthly payments of 42s., or 24 monthly payments of 21s. 6d. SPECIAL MODEL.—BC.3558L for 110/130 and 210/230 volts, 40/60 cycles. 10s. 6d. extra.

extra.

Goltone Tubular Condensers

Supplies : Available. Additions have been made to the range of Goltone tubular non-inductive condensers marketed by Ward and Goldstone, Ltd., of Pendleton, Manchester.

Previously values from .5 mfd. to .01 mfd. only were listed, but the range now extends

only were listed, but the range now extends to .00005 mfd. The new types are available for 250 volt or 400 volt working, the latter being at a slightly higher price. Following are the new types, the two prices being for the 250-v. and 400-v. versions respectively : .005 mfd., 7d. and 1s. 3d.; .003, 7d. and 1s.; .002, 7d. and 1s.; .001, 6d. and 1s.; .0005, .0003, .0002, .0001 and .00005, 6d. and 9d. each. Another new Goltone line is a double-pole fuse plug in flush and surface mounting types. The plug retails at 1s. 4d. complete with fuse, and the bases at 6d. each. Spare fuses cost 4d. each.

4d. each.

Two Mullard Valves for

Relay and P.A. Supplies: Available. Two valves designed mainly for relay and P.A. work have been produced by the Mullard Wireless Service Co., Ltd., of Mullard House, Charing Cross Road, London, W.C.2. These are the MZ1-100 output triode and the RG2-500 gas-filled rectifier. The triode MZ1-100 is compact in size and is of pipless construction, which, it is stated.

is of pipless construction, which, it is stated, reduces the risk of accidental damage. CHARACTERISTICS.—Filament 6 volts, 2.7

characteristics. — Financial o Volts, 2.1 amps.; total emission 1.5 amps.; max. anode voltage 1,200; continuous anode dissipation 100 watts; amplification factor 5.6; slope 4 ma. volt; impedance 1,400 ohms. Working into an approximate optimum load of 7,000 ohms with 1000 watts on the apple with 1,000 volts on the anode and an anode current of 100 ma., the valve gives an undis-torted output of approximately 30 watts for torted output of approximately 30 watts for a peak grid excitation of approximately 150 volts. The base is a standard four-pin trans-mitting type, number D.O.S.T.I. PRICE.—Ten guineas. The gas-filled rectifier RG2-500 is of the mercury vapour, hot-cathode type, and brings the Mullard range of these specimens up to four

up to four.

It is stated it is particularly suitable for use in rectifier circuits fed from single-phase or three-phase A.C. supplies where relatively heavy output currents at voltages up to 2,000 D.C. are required, and in voltage doubling circuits giving an output voltage of approxi-mately 4,000 D.C. at full load.

Mullard strongly recommend that gas-filled



rectifiers be always operated in pairs in a full-wave rectifying arrangement, even if a single valve used as a half-wave rectifier can even if a

single valve used as a half-wave rectifier can give the required output. OPERATING DATA.—Filament, 5 volts, 10 amps.; max. anode voltage, 2,000 rms.; max. peak inverse voltage, 5,000; max. rectified output current, 500 ma.; max. peak anode current, 2,500 ma. As in the case of other valves in this range, the internal voltage drop is only some 15 to 20 volts. PRICE.—£7 10s.

Union Radio S.W. Converter

Supplies : Available. A superhet-type short wave converter containing its own frequency changer has been released by the Union Radio Co., Ltd., of

Campbell Road, Croydon, Surrey. Designed for A.C. mains operation, the converter utilises a tuned H.F. pentode and a tuned pentode frequency changer. In addi-tion, there is a power supply unit using valve rectification.

The wavelength range covered is 13-55 metres, which is converted to the inter-mediate frequency of 500 metres.

The convertor is for connection to the aerial and earth terminals of the existing receiver by means of shielded links.

CABINET.-Walnut, measuring 12 in. by 10 in. by 9 in. MAINS SUPPLY.-100-130 voits and 200-250

volts, 40-100 cycles.

PRICE.-£8, complete with valves.

Tuning Scales for the New Wavelengths Tuning scales calibrated with revised sta-tion names and wavelengths to meet the B.B.C. "reshuffle" which takes place on February 17, are to be issued by United Radio Manufacturers, Ltd., of Parkhurst Road, London, N.7.

Only a few models of the Invicta series are affected, these being the Multimains 635 and 635D receivers, the 635 RG radiogram and the model T receiver.

New scales will be available at 2s. 6d. each, subject, and the fitting charge is being left to the dealer's discretion. Revised scales for the H.M.V. models 580 and 800 have been issued by the Gramophone

Co., Ltd. For sets sold, the scales cost 2s. 6d. each,

and it is suggested that dealers should make a nominal charge for fitting. For sets in stock the scales will be provided free.

stock the scales will be provided free. New scales are not being supplied for other H.M.V. models at present, but as soon as the new scheme has proved satisfactory fur-ther arrangements will be made. New scales will be available from H. Clarke and Co. (Manchester), Ltd., on February 13, after which date all receivers manufactured will carry a revised scale

manufactured will carry a revised scale.

The replacement scales are priced at 1s. 6d. retail.

The discount to retailers on the new Primus range of H.T. batteries marketed by Britannia Batteries. Ltd., was incorrectly given in the Brand New columns last week. Actually, the dealer discount is 25 per cent., so that the Primus range fill an intermediate position between the Broadcast and Bulldog ranges.

BIRMINGHAM'S E.C.A. IDEA

Dear SirYour report of the Bir-mingham Branch W.R.A. meeting cannot be allowed to pass without comment. I have no doubt that many of the Birmingham members are also mem-

bers of the E.C.A., and it is a great pity that these gentlemen did not take the trouble to explain the constitution of the E.C.A. and is allied organisations.

Had this been done, I feel sure that such a resolution would not have been passed by the radio dealers at the meeting.

The Electrical Contractors' Association was incorporated by the Board of Trade in 1904, and the only function allowed them is to represent and work for the electrical contractors in Parliamentary and municipal matters. Its licence forbids the E.C.A. to work in any way for the financial benefit of its members, or to deal with labour disputes. The entrance fee to the E.C.A. is three

guineas, with an annual subscription of four guineas, plus 5s. per £100 of wages paid in excess of £840 per annum. The maximum subscription is £30! This annual subscription also attaches to two other parallel organisations which I deal with below.

The membership of the E.C.A. is, I be-lieve, in the neighbourhood of 2,000.

W.R.A. Finance

Mr. Dagnall says the W.R.A. is not a financial success. The W.R.A. subscription is £1 11s. 6d. per annum, and to the shame of the profession it serves its members either will not or cannot pay this small sum for exactly the same benefits as enjoyed by the members of the E.C.A. at a considerably higher subscription. May I inquire, has Birmingham paid its W.R.A. quota?

Now for the "financial benefits" Birmingham is so anxious about. E.C.A. members obtained rebates on cables and lamps. have W.R.A. members have obtained rebates on valves. And in both cases the conditions to secure the rebates are the same, viz. : the E.C.A. man must undertake to buy and stock only C.M.A. cables and E.L.M.A. lamps, and the W.R.A. man must undertake to buy and stock only B.V.A. valves. Strange to say, you need not be a member of either organisation to secure these benefits.

Birmingham will admit that the sale of electrical apparatus is far in excess of radio apparatus, and the buying power of the Electrical Industry leaves radio standing still.

Therefore in order that E.C.A. members should be able to enjoy some sort of prefer-ence an allied association of the E.C.A. was formed in 1915 (eleven years after the incor-poration of the E.C.A., mark you) known as the NECTA Ltd the N.E.C.T.A., Ltd.

This is a company guaranteed by share capital and membership subscriptions (part of the four guineas referred to above) formed for the four guineas referred to above) formed for the purpose of securing for E.C.A. mem-bers trading profits. This association enters into trading agreements with certain manu-facturers and benefits its members by way of dividend, which may be in excess of the members' subscriptions, dependent on their buying nover buying power.

The other allied organisation supported by The other allied organisation supported by the E.C.A. subscriptions is the National Federated Electrical Association. This body, in conjunction with the Electrical Trades Union, is responsible for wage rates and labour troubles generally which may occur in the electrical trade.

For further financial help this body takes from the electrical contractor as a subsidy



New Para Radio has opened this attractive branch at 30, Ivegate, Bradford. Ultra Electric, Ltd., provided much of the equipment used.

contribution 10s. per £100 of wages paid per contribution los. per £100 of wages paid per annum for the first three years, and for the next six years 2s. 6d. per £100 per annum. To obtain all these "E.C.A." benefits mem-bers must belong to all three organisations, and the subscription is the same for membership of one or all the associations.

I submit that under its constitution the E.C.A. cannot cater for radio dealers. The E.C.A. will admit to membership the "Private House" electrical contractor. The W.R.A. have fought against this tooth and nail, and its definition of a radio dealer calls for business premises being used and rated as such. The private house dealer has filched and is still filching some radio business from the radio dealer, and yet Birmingham is out to undo all the valuable spade-work accom-plished by the W.R.A. for the recognition of a proper status for the *bona-fide* radio dealer. Birmingham may create many difficulteis in

Birmingham may create many difficulties in pressing this matter, but "It's an ill wind that blows nobody any good," and I hope that the Radio Trade will observe the danger signals and rally to the banner of the W.R.A. in order that such attempts to smash the individuality of the radio dealer may be functored frustrated.

frustrated. In spite of adverse reports at the Birming-ham meeting, I know that the membership of the W.R.A. is increasing. Whether the subscription might be larger is a matter of speculation, but if everyone interested paid up now the financial difficulties would disappear.

So far as W.R.A. trading benefits are conso far as w.n.A. trading benefits are con-cerned, I can only express my surprise that Mr. Dagnall, as a vice-president of the W.R.A., and possessing a full and inside knowledge of the private and confidential negotiations that have and are still taking place, should so far forget his responsibilities as to make, and allow to be made by others, irresponsible statements which cannot be substantiated by facts.

Led by facts. L. WILDE, Hon. Secretary, London and Home Counties W.R.A. Area Council.

Service Analysis

HAVE just completed my records for 1934, and the following figures may be of interest

Taking the first hundred receivers sold in 1934 (among them are some known as 1935 sets), and remembering that nearly all of them still have a few months' free replacement service available, this is what I find.

Up to the time of writing and during the guarantee period, these sets have required

81 valves, 48 resistances, 39 dial lights, 34 re-alignments, 31 switches, 19 volume controls, 16 speakers, 15 output transformers, 12 coils, nine A.V.C. meters, seven condenser blocks, and four electrolytics. Five sets have been article methods.

entirely replaced. These figures do not include 18 receivers delivered up to September, 1934, which arrived either smashed, incomplete, or in such bad condition that they could not possibly be regarded as new and up to standard, and which were later replaced by maker or factor.

Except for one particular make, the guarantee operates over 12 months, so it is safe to assume that the majority of the above figures will show a big increase before the

nguarantees expire. My experience shows that in 1934 most service after sales was due to two things— "frills" and the very unsatisfactory performance of valves.

Frills are definitely not popular with the thinking purchaser, who seeks performance and reliability rather than peculiar tuning arrangements. Valve production has either decreased in efficiency or certain of the later types are never subjected to thorough, prolonged test under load conditions.

longed test under load conditions. Comparative tables, showing profits made in 1934, (a) including service expenses, (b) ex-cluding ditto, during guarantee period, of course, prove that a tremendous amount of hard cash is absolutely wasted. Postal charges alone in connection with "service" during 1934 exceeded £20.

It is high time for all concerned to give the whole question of service their immediate and most careful consideration, before the public loses its last vestige of confidence. WARD.

Portsmouth.

Makers' Valve Stocks?

SETS of two of my customers are out of Commission because I cannot obtain correct replacement valves. These valves have been on order for four weeks, and the excuse given by the makers is that set manufacturers are taking all their stocks. What

a pretty pickle: These particular sets were made 18 months ago, and yet replacement valves are not obtainable from anyone. In my opinion, set makers should lay in stocks of valves purely for their own replace-

ments.

G. D. HAWSE.

The 12-Gn. Receiver

WHILE agreeing with much that Mr. G. T. Herbert writes regarding the price of sets, I think the 12-guineas set is the type for which most dealers can find a ready sale.

Industrial depression (strafe that word, hadustrial depression (strate that word, but can we avoid it?) has seriously depleted the spending power of our public, and 20 guineas is very much out of the reach of the majority of our customers. I do not see the point in selling a set at this figure to our poorer customers with the inducement of a longer hire period, when, in all proba-bility, the set would be obsolete before half the payments had been made. With the knowledge that manufacturers

possess from past experience, and with up-to-date plant and resources. I see no reason whatever why we cannot have a set retailing at 12 guineas, showing a reasonable return to maker and retailer, and yet proving fairly foolproof and trouble-free.

Burnley.

WM. BURY.

THE BIG NAME BEHIND **BATTERY SALES** MARATHON MADE AT THE G.E.C. BATTERY WORKS WITTON BIRMINGHAM

The Broadcaster and Wireless Retailer

February 9, 1935



THIS IS THE NAME BEHIND THE BATTERY



THIS IS THE POWER BEHIND THE SET

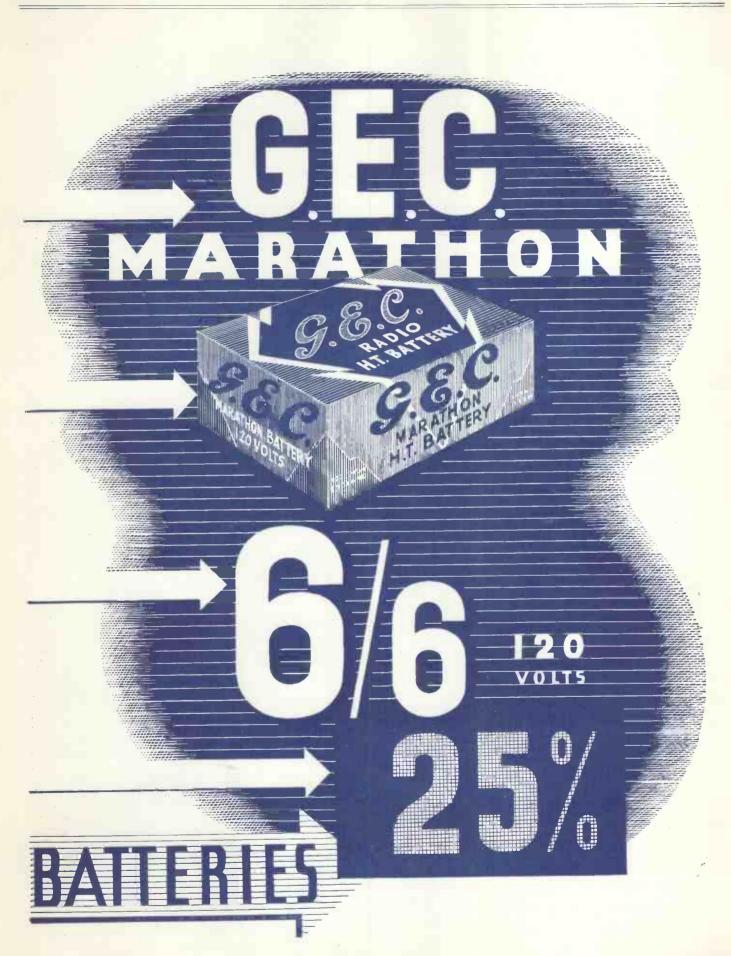


THIS IS THE FORCE BEHIND YOUR SALES

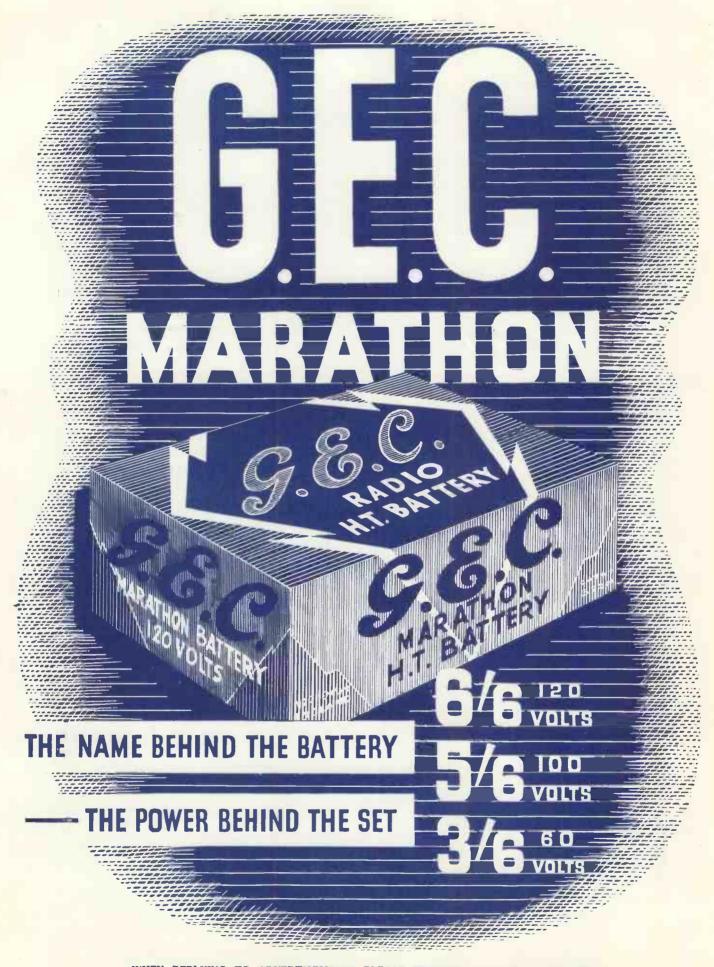








WHEN REPLYING TO ADVERTISEMENTS PLEASE MENTION "THE BROADCASTER."



WHEN REPLYING TO ADVERTISEMENTS PLEASE MENTION "THE BROADCASTER."

PART-EXCHANGE RESALE PRICES

THE price you may expect to obtain when reselling any one of nearly 500 types of receivers of forty-four different makes are

given below and on the pages following. The list is considerably larger than that published by BROADCASTER in July of last year. And THE BROADCASTER schedule is still the most complete published in connection with part-exchange

The figures quoted are the average of the resale prices being obtained by a selection of successful radio dealers in various parts of the country.

As the market value of a set varies considerably from place to place, not only the average figure is quoted below, but the highest and lowest resale figures obtained by the dealers who provided the basic statistics.

It should be noted that where a receiver is dated as, say, 1931-33, the price taken for the 1931 type will be lower in relation to the average figure than that expected for a 1933 model of the same set.

It will be seen that against each set is quoted the year of introduction. Usually this introduction dated from the Olympia Radio Exhibition. A set dated 1932-33 was probably introduced at the 1932 Show, and was retained until at least after the 1933 Show.

No prices are given for sets produced

before 1930. Such instruments have now no resale value.

Large town prices are different from country prices. An area in which a main B.B.C. station is situated returns a lower second-hand value for non-selective sets than an area well away from stations.

The value of sets made by manufacturers that have ceased trading does not necessarily go to nil. Certain types retain some value in the second-hand market.

The trend in resale prices of different types of set should also be noted.

Second-hand superhets keep a better value than older straight sets. Also receivers which, when current, were very popular and well known, hold a greater second-hand value. Instruments fitted with cone speakers are of lower value than those with moving coil speakers.

A.C. instruments are always of greater value in proportion than battery sets, although portable battery superhets hold their price.

D.C. sets do not hold their value so well. To arrive at his allowance figure the dealer has to deduct from the second-hand value :---

(i) His profit on the resale.

(ii) Any advertising costs he may incur in the resale.

(iii) A figure (fair to himself) for putting the set in working and resaleable order, together with replacements at retail price.

The first two deductions will be percentage figures which, presumably, will stay constant whatever the deal.

The cost of service work should be calculated just as if the work were being done for a customer covered by no guarantee or dealer-obligation. Then the total should be deducted from the resale figure with the other items mentioned before an allowance is quoted.

Three means of identification are given in the following list, apart from the manufacturers' names.

The first letters and figures give the type of set and the number of valves, respectively. "B." indicates a battery set; "A.C." or "D.C." indicates mains sets; "U." indicates a universal A.C./D.C. receiver; "R.G." means radiogram; and "R.G.Auto" indicates an automatic radiogram.

This code information should be read in conjunction with the details following in brackets, which give the title of the set or the manufacturer's catalogue, type, or model number for it.

The second column gives the original list price of the set when first released.

F

	Original	Wasan	I	tesale Pric	e.	26.1	Original		I	Resale Pric	e.
Make, Type and Description.	Price. £ s. d.	Year.	Min. £ s. d.	Max. £ s. d.	Average. £ s. d.	Make, Type and Description.	Price. £ s. d.	Year.	£ s. d.	Max. £ s. d.	Average. £ s. d.
AC2 (Mains) B3 (S.G. Battery) AC3 (S.G. Mains) DC2 (Mains) B3 (Swift)	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	1931/32 1932/33 1933/34	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	AC3 (SG Mains) B4 (SG Transportable) B4 (S.G. Major Portable) B4 (S.G. Transportable)	10 10 0 14 14 0 10 10 0 11 11 0 11 11 0	1931/33 1931/32 1932/33 1933/34 ,,	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccc} 4 & 0 & 0 \\ 5 & 0 & 0 \\ 4 & 0 & 0 \\ 4 & 10 & 0 \\ 5 & 5 & 0 \end{array}$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
able) ALBA (A, J. Baicombe).	t-1	" "	$1 \ 5 \ 0$ $1 \ 10 \ 0$ $1 \ 0 \ 0$	4 4 0 5 10 0 2 10 0	2 15 11 3 9 0 1 12 2	BROWNIE. B4 (Dominion S.G.) B2 (Baby Grand) AC2 (Dominion Mains) AC3 (Dominion SGP)	$ \begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$	1931/32 1930/31 1931/32 ,,	$\begin{array}{ccccccc} 0 & 5 & 0 \\ 0 & 5 & 0 \\ 0 & 10 & 0 \\ 1 & 0 & 0 \\ \end{array}$	$\begin{array}{cccc} 4 & 0 & 0 \\ 1 & 5 & 0 \\ 4 & 10 & 0 \\ 4 & 0 & 0 \end{array}$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
B3 (33) B3 (44 B.G.)	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	1932/33	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	1 18 11 3 18 10 3 17 6 3 15 11	B3 (Dominion SG Grand) AC3 (Dominion SG Grand) BURNDEPT.	9 17 6 13 13 0	99 97		$\begin{array}{ccc} 3 & 0 & 0 \\ 4 & 10 & 0 \end{array}$	$ \begin{array}{cccc} 1 & 7 & 6 \\ 2 & 5 & 10 \end{array} $
AC3 (77 R.G.) AC3 (88 R.G.) AC3 (50) AC3 (70 R.G.) B4 (222) B3 (23) B5 (34)	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	** ** 1933/34 **	$\begin{array}{ccccc} 4 & 0 & 0 \\ 3 & 3 & 0 \\ 2 & 10 & 0 \\ 4 & 10 & 0 \\ \hline 9 & 0 & 0 \\ 3 & 0 & 0 \\ 4 & 0 & 0 \\ \end{array}$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	B3 (Merrymaker) AC2 (Merrymaker) AC3 (Wandering Minstrel) AC3 (Ethophone)	5 15 0 7 10 0 8 10 0 16 19 6	1930/31 1931/32 "," "," "," ","	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
AC5 (54) AC5 (67)	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	9 9 9 9 9 9	$\begin{array}{ccccc} 6 & 10 & 0 \\ 4 & 10 & 0 \\ 4 & 12 & 6 \\ 6 & 10 & 0 \end{array}$	10 10 0 6 6 0 8 8 0 12 10 0	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	AC3 (S.G. R.G.) B2 (Empire)	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	1931/32 ,,	$\begin{array}{cccccc} 0 & 10 & 0 \\ 1 & 15 & 0 \\ 0 & 5 & 0 \\ 0 & 7 & 6 \end{array}$	$5 0 0 \\ 8 0 0 \\ 1 15 0 \\ 2 2 0$	$ \begin{array}{ccccccccccccccccccccccccccccccccc$
B4 (Suitcase Portable) B4 (Cabinet Portable)	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	1930/31 1931/32	$\begin{array}{ccccccc} 1 & 0 & 0 \\ 1 & 15 & 0 \\ 0 & 10 & 0 \\ 1 & 0 & 0 \end{array}$	$\begin{array}{cccc} 4 & 0 & 0 \\ 3 & 10 & 0 \\ 2 & 12 & 6 \\ 5 & 0 & 0 \end{array}$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	BUSH. AC3 (S.G.)	17 17 0 10 19 6	" 1932/33 1933/34	$ \begin{array}{ccccccccccccccccccccccccccccccccc$	$ \begin{array}{ccccccccccccccccccccccccccccccccc$	
DC2 (RD2) B2 (Battery) AC4 (A4) B4 (B4)	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	1931/32 1930/31 1933/34 "	0 10 0 0 5 0 0 5 0 3 17 6 3 0 0 2 15 0	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	B3 (Olympic) B3 (Dreadnought) B5 (Portable) B5 (Portable de Luxe) AC7 (Silver Seven)	. 26 5 0	1930/32 1931/33 ,, 1931/32 1931/33	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
AUTOMOBILE ACCES SORIES (BRISTOL), LT B3 (P.D. Junior 3)	D. 4 19 6	1930/32	076	1 10 0	0 15 10	B3 (Class B3) BLUE SPOT.	. 6 10 0	1933/34	2 5 0	4 0 0	2 17 6
B3 (P.D. Westro Console B3 (P.D. Westro Pedesta B3 (P.D. Westward)	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	>> >> >> >> >> >> >> >>	0 8 6 0 7 6 0 7 6 0 10 0 0 12 6 0 8 6	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	B4 (K 252) AC4 (W S 400)	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	1931/32 ,, ,, ,, ,, ,, ,, ,,	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	6 0 0 5 0 0 7 0 0 8 0 0 7 10 0 6 15 0	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
B3 (P.D. Western) B3 (P.D. Western Pedest: B3 (P.D. Western Conso B3 (P.D. S.G.3) B3 (P.D. S.G. de Luxe) B4 (P.D. S.G. de Luxe) B4 (P.D. S.G. de Luxe) B4 (P.D. T.S.G.4) AC3 (P.D. Mains S.G.3)	hle) 10 12 6 9 15 0 11 10 0 12 19 6 16 17 6	"" 1930/33	0 8 0 0 15 0 0 12 6 0 15 0 0 17 6 0 12 6 0 12 6 0 12 6 0 15 0 1 6 8 1 6 8	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	AC5 (S.G. Bivox) AC5 (S.G. Bivox) AC5 (Superhet)	8 15 0 12 12 0 14 14 0 14 14 0		0 15 0 0 18 9 1 10 0 1 2 6 2 2 0	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
AC3 (P.D. Mains S.G.3) AC4 (P.D. Mains T.S.G.4)) 26 0 0	27		5 0 0	3 8 3	(Ca	ontinued	on pag	e 42)		

The Broadcaster and Wireless Retailer

PART EXCHANGE PRICES (Contd.)

	Original	1		Resale Pric	<i>nia.)</i>
Make, Type and Description.	Price. £ s. d.	Year.	Min. £ s. d.	Max. £ s. d.	Average. £ s. d.
AC5 (R.G. Bivov)	$ \begin{array}{ccccccccccccccccccccccccccccccccc$	23 25 35 25 25 25 23	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	7 0 0 7 7 0 7 7 0 8 8 0 9 9 0	$\begin{array}{r} 4 & 4 & 11 \\ 5 & 4 & 9 \\ 5 & 6 & 7 \\ 5 & 11 & 2 \\ 5 & 18 & 8 \end{array}$
CLIMAX. AC3 (Bandpass) DC3 (Bandpass) DC3 (Bandpass) DC3 (Bandpass R.G.) DC3 (33 A) DC3 (33 A) B3 (M.C.3) B4 (M.C.3) AC3 (33A) C4 (M.22) AC4 (45.4) AC3 (T.C.3)	$\begin{array}{c}16 \ 16 \ 0 \\16 \ 16 \ 0 \\25 \ 4 \ 0 \\25 \ 4 \ 0 \\26 \ 5 \ 0 \\9 \ 15 \ 0 \\9 \ 0 \ 0 \\9 \ 0 \ 0 \ 0 \ 0 \ 0 \ 0 \ 0 \ 0 \ 0 \ $	1931/33 " 1932 1932/33 1931/32 1930/31 1932 1933/34 "	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{c} 2 & 7 & 2 \\ 1 & 17 & 6 \\ 4 & 18 & 10 \\ 2 & 1 & 0 \\ 4 & 2 & 2 \\ 1 & 13 & 9 \\ 2 & 10 & 6 \\ 0 & 14 & 9 \\ 14 & 9 \\ 14 & 5 \\ 5 & 10 \\ 4 & 11 \\ \end{array}$
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	1931/32 " 1932/33 1931/32 1932/33 " 1931/32 " 1931/32 1930/31 1932/33 1933/31 1932/33 1933/34 "	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{c} 0 & 16 & 11 \\ 1 & 16 & 11 \\ 3 & 3 & 6 \\ 4 & 1 & 0 \\ 2 & 17 & 9 \\ 7 & 6 & 1 \\ 5 & 16 & 4 \\ 6 & 8 \\ 5 & 2 & 9 \\ 12 & 15 & 1 \\ 1 & 3 & 7 \\ 1 & 8 & 2 \\ 12 & 15 & 1 \\ 1 & 3 & 7 \\ 1 & 2 & 12 & 10 \\ 1 & 3 & 1 \\ 2 & 12 & 10 \\ 1 & 3 & 1 \\ 2 & 12 & 10 \\ 1 & 3 & 1 \\ 2 & 12 & 10 \\ 1 & 3 & 1 \\ 1 & 2 & 12 \\ 1 & 2 & 17 \\ 1 & 3 \\ 1 & 2 & 12 \\ 1 & 2 & 17 \\ 1 & 3 \\ 1 & 2 & 12 \\ 1 & 2 & 17 \\ 1 & 3 \\ 1 & 2 & 12 \\ 1 & 2 & 17 \\ 1 & 3 \\ 1 & 2 & 12 \\ 1 & 2 & 17 \\ 1 & 3 \\ 1 & 2 & 12 \\ 1 & 2 & 10 \\ 1 & 2 & 12 \\ 1 & 2 & 10 \\ 1 & 2 & 10 \\ 1 & 3 \\ 1 & 2 & 12 \\ 1 & 2 & 10 \\ 1 & 3 \\ 1 & 2 & 12 \\ 1 & 2 & 10 \\ 1 & 2 & 10 \\ 1 & 2 & 12 \\ 1 & 2 & 10 \\ 1 & 2 & 12 \\ 1 & 2 & 10 \\ 1 & 2 & 12 \\ 1 & 2 & 10 \\ 1 & 10 \\ 1$
UUGOUN.		1930/31 " 1932/33 " 1931/32 1933/32 1933/34 " " "	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
CROMWELL. B3 (SG3) Agin AC3 (Monarch Major) AC3 (Monarch Major) AC3 (Monarch S.G. Console B3 (Monarch S.G. Console B3 (Monarch) AC3 (Monarch) AC4 (Cromwell 404)		1930/31 1930/31 1932/33 " " 1933/34 " "	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
DECCA. AC3 (16) AC4 (19) AC4 (22) AC5 (Tallboy)	$\begin{array}{c} 16 16 0 \\ 19 19 0 \\ 23 2 0 \\ 29 8 0 \end{array}$	1931/32 1932/33 "	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccc} 3 & 0 & 0 \\ 4 & 0 & 0 \\ 4 & 0 & 0 \\ 5 & 0 & 0 \end{array}$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
AC3 (313) AC3 (R.S.2) AC4 (R.S.3) AC4 (R.C.4 Console) AC4 (R.G.5) AC5 (S.H. 25 Superhet) . AC3 (M.23)	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	1930/31 1931/32 1932/33 " 1931/32 1933/34 "	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
B5 (459 Superhet) AC3 (555) DC3 (555) AC3 (457) DC3 (457) AC4 (466 Bandpass) DC4 (466 Bandpass) AC4 (566 S.G.)	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	33	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$

		rigin				_		Re	sale	Pri	ce.		-
Make, Type and Description.		Price		Year.	£	Min s.	d.		Max s.			eraj s.	
AC4 (467 R.G.) DC4 (467 R.G.) AC3 (557 Bandpass)			0000	1931/32 ,,	32	5 10 10	0	12	0	0	75	14 13 19	0 1 2
			0	1930/31	0	10	6	5	0	0	1	14	2
B4 (P.264 S.G. Portable) B5 (P.225 Suitcase) AC3 (R.G.) B4 (Claremont) AC2 (Claremont)	12 9 36 10	12 9 15 10	0000000	" 1931/32 "	0 0 0	12 10 15 12 12	6 0 0 6 0		0000		1 4 1	14 10 5 5 10 12 1	8 4 10 6 3
E.R.P. (Electrical and Radio Products, Ltd.). Mail B4 (P.264 Portable) B5 (P.225 Suitcase) AC3 (R.G.) B4 (Clarendon) AC2 (Clarendon) AC3 (Marlboro) AC3 (Marlboro) AC4 (Gainsboro) AC4 (Marlboro) AC4 (Marlboro)	10 14 14 18 37	10 14 14 18 16	000000	2 7 2 7 2 7 2 7 2 7 2 7 2 7	$ \begin{array}{c} 0 \\ 1 \\ 0 \end{array} $	10 0 10 13 1	0	45556	10 0 0	000000	1 2 2 2	8 6 1 17 19	6
FERRANTI.	9 15 14 42 23 26 25 15 17	9915 14 0 2 5 4 15 17		1930 1930/31 " 1932/33 1933/34 "	$ \begin{array}{c} 0 \\ 1 \\ 2 \\ 2 \\ 5 \\ 4 \\ 4 \end{array} $	12 5 0 10 15 0 0	6 0 0 0 0 0 0 0	9 7 8 10 9		0 0 0 0 0 0 0 0	234476	5 10 8 18 12 19 16 7 10	1
GAMBRELL. AC2	15 45 37 35 84	$15 \\ 0 \\ 0 \\ 14 \\ 0$	0 0 0 0	1930 1930/31 1931 1930/31	0 1 0 2 4	$10 \\ 0 \\ 10 \\ 12 \\ 2$	0 0 0 6 0	2 6 5 26	0 0 0 0	0 0 0 0 0	24	$9 \\ 19 \\ 15 \\ 0 \\ 13$	0, 0, 11 6, 2,
G.E.C. (General Electric													
B3 (Gecophone 3032) AC3 (Gecophone 3130) AC3 (Compact 3) AC3 (Carnival R.G.) AC3 (Gala) AC3 (Gonsole) AC4 (Console) AC4 (Superhet) AC4 (Viking) DC4 (Nomad)	$ \begin{array}{r} 12 \\ 18 \\ 18 \\ 31 \\ 15 \\ 25 \\ 27 \\ \end{array} $	$ \begin{array}{c} 0 \\ 0 \\ 18 \\ 10 \\ 15 \\ 4 \\ 6 \end{array} $		1930 1931 1931/32 "	0 1 1 1 2 3	25	6 0 0 0 0	$ \begin{array}{c} 3 \\ 11 \\ 4 \\ 10 \\ 10 \\ 10 \\ 10 \\ 10 \\ 10 $	$ \begin{array}{c} 0 \\ 10 \\ 10 \\ 10 \\ 10 \\ 12 \\ \end{array} $			18 13 6 1 1 10 8 1	$ \begin{array}{c} 6 \\ 1 \\ 7 \\ 6 \\ 11 \\ 11 \\ 7 \\ 7 \end{array} $
B6 (All Wave Super) AC3 (B.3038 Portable)	27 21	10 0		1932/33 1930/31	213310	$ \begin{array}{r} 15 \\ 12 \\ 10 \\ 0 \\ 15 \\ \end{array} $	0 0 0	758843	7 10 8 0 0		435421	$ \begin{array}{r} 10 \\ 7 \\ 0 \\ 17 \\ 0 \\ 13 \\ 11 \end{array} $	3 10 3 7 0 8 5
B4 (8.G. Cabinet Portable) B4 (8.G. Cabinet Portable) DC5 (Superhet 5) DC5 (Superhet 5) AC5 (Superhet 5 Console) AC5 (Superhet Console) AC5 RG (Superhet 5 Radio- gram)	17	$ 14 \\ 14 \\ 17 \\ 17 \\ 5 $	0000000	1933/34 ", ",		13 4 17 0 0 19	0 6 0 0	5 6 6	10 10 10 10 10	000000000000000000000000000000000000000	4454	16 8 19 19 19	90°80 5
H.M.V. (Gramophone Co.,													
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	30	2 14 9		1931/32 " " 1931/32 1932/33 1932/33 "	2 3 4	$\begin{array}{c} 0 \\ 10 \\ 10 \\ 5 \\ 0 \\ 15 \\ 10 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ $		4 6 9	$ \begin{array}{c} 0 \\ 15 \\ 10 \\ 0 \\ 0 \end{array} $	0 0 0 0 0	6 5 4 9 6 11 9	$9 \\ 12 \\ 3 \\ 19 \\ 1 \\ 13 \\ 4$	754011116114081014
				1931/32	1 1	$ 15 \\ 12 $	$\begin{array}{c} 0 \\ 6 \end{array}$	5 4	15	0 0	22	17 10	3 33
KOLSTER BRANDES. B3 (K.B. 163)	$\begin{array}{r} 7\\10\\17\\9\\18\\17\\14\\4\\8\\8\\8\\11\\31\\27\\16\\10\\18\end{array}$	$\begin{array}{c} 10\\ 15\\ 15\\ 15\\ 18\\ 17\\ 10\\ 10\\ 10\\ 10\\ 10\\ 10\\ 10\\ 16\\ 15\\ 18\end{array}$		" 1930/31 " 1931/32 " 1932/33 1931/32 " 1932/33 1931/32 1933/34	0 0 1 0 1 1 0 0 0 0 0 0 0 0 0 1 3 1 1 0 0 0 0	$15 \\ 10 \\ 0 \\ 15 \\ 10 \\ 5 \\ 17 \\ 10 \\ 10 \\ 15 \\ 5 \\ 0 \\ 14 \\ 12 \\ 10 \\ 10 \\ 15 \\ 10 \\ 10 \\ 10 \\ 10 \\ 10$	000000000000000000000000000000000000000	$\begin{array}{c} 1 \\ 1 \\ 3 \\ 2 \\ 5 \\ 5 \\ 4 \\ 1 \\ 2 \\ 1 \\ 2 \\ 3 \\ 12 \\ 4 \\ 3 \\ 0 \end{array}$	$\begin{array}{c} 0 \\ 5 \\ 0 \\ 0 \\ 0 \\ 0 \\ 10 \\ 5 \\ 0 \\ 13 \\ 12 \\ 10 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ $	000000000000000000000000000000000000000	$\begin{array}{c} 0 \\ 1 \\ 1 \\ 2 \\ 6 \\ 2 \\ 0 \\ 1 \\ 2 \\ 6 \\ 5 \\ 2 \\ 1 \\ 7 \end{array}$	$18 \\ 1 \\ 15 \\ 4 \\ 10 \\ 11 \\ 14 \\ 3 \\ 17 \\ 10 \\ 1 \\ 2 \\ 10 \\ 16 \\ 8 \\ 3 \\ 3 \\ 10 \\ 16 \\ 8 \\ 3 \\ 10 \\ 10 \\ 10 \\ 10 \\ 10 \\ 10 \\ 10 $	78033795124990206
AUG (K.B. 000) B3 (K.B. 333) AC4 (K.B. 444) LISSEN.	18 8 12	15 12	0 0	57 57	$ ^{2}_{4}$	$\begin{array}{c} 0\\ 10 \end{array}$	0 0	8	10 8	0 0	25	3 17 12	0, 9,
L185E N. B2 (LN 8020) B3 (LN 8019) DC2 AC3 (LN 8023) AC3 (LN 8023) AC3 (LN 8026) AC3 (LN 8023) AC3 (LN 8026) AC4 (8033) B5 Portable (8055) DC3 (8053)	4 8 7 17 14 14 12	4 17 7 17 14 14 12		1930/31 1931/32 1932/33 1933/34 "	000011422	$ \begin{array}{r} 10 \\ 10 \\ 10 \\ 10 \\ 5 \\ 4 \\ 10 \\ 9 \end{array} $		$ \begin{array}{c} 1 \\ 1 \\ 2 \\ 2 \\ 3 \\ 5 \\ 5 \\ 4 \end{array} $	$ \begin{array}{c} 0 \\ 1 \\ 10 \\ 5 \\ 10 \\ 10 \\ 5 \\ 0 \\ \hline 0 \\ 5 \\ 0 \\ 0 \\ 5 \\ 0 \\ 0 \\ 5 \\ 0 \\ 0 \\ 5 \\ 0 \\ 0 \\ 5 \\ 0 \\ 0 \\ 5 \\ 0 \\ 0 \\ 5 \\ 0 \\ 0 \\ 5 \\ 0 \\ 0 \\ 0 \\ 5 \\ 0 \\ 0 \\ 0 \\ 5 \\ 0 \\ $		112243	$ \begin{array}{r} 11 \\ 15 \\ 10 \\ 5 \\ 1 \\ 13 \\ 17 \\ 10 \\ \end{array} $	3. 11 4. 6. 1 9, 1
DC3 (8053)	11 12	12 12 tin	0 0 ued	;; on pag	1 2	0	6 0)		0	0	33	19 4	11 2.

Sector Se

F you test a KB383A receiver it won't take long to discover just why it steals a good year's march over its nearest rivals.

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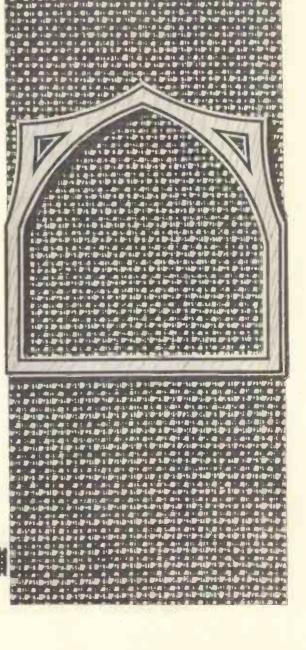


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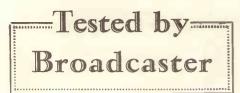
The Broadcaster and Wireless Retailer

PART EXCHANGE PRICES (Contd.)

Malza Trma and	Original	Wasa		Resale Pric	
Make, Type and Description.	Price. £ s. d.	Year.	Min. £ s. d.	Max. £ s. d.	Average. £ s. d.
B4 (Portable)	$\begin{array}{c} 14 \ 14 \ 0 \\ 21 \ 0 \ 0 \\ 10 \ 10 \ 0 \\ 16 \ 16 \ 0 \\ 16 \ 16 \ 0 \\ 12 \ 12 \ 0 \end{array}$	1930/31 1931/32 1932/33 1931/32 ,,	0 10 0 0 12 0 0 10 0 0 15 0 0 10 0 0 15 0 0 15 0	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	2 3 9 2 13 6 1 7 0 2 9 2 2 7 0 1 17 8
MAJESTIC. AC5 (Havenwood) AC5 (Ellswood) AC7 (Knightswood) AC7 (Knightswood) AC7 (Earlswood) AC7 (Earlswood)	14 14 0 15 10 0 20 0 0 25 4 0 27 6 0 35 14 0	" 1931/32 " 1932/33	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
MARCONIPHONE. B2 (221) AC2 (220) B3 (39)	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	1930/31 " " " " " " " " " " " " " " " " " " "	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
B4 (Batterv) B5 (Portable) AC3 (Portable A3) AC4 (Portable A4) DC4 (Portable D4)	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	*** 1931/32 *** 1932/33	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
McMICHAEL. B5 (M.H. Portable) B4 (M.H. Super Range) B4 (M.H. Transport Desk) AC3 (R.G.) AC3 (R.G.) Construction B4 (M.H. Vansport Desk) AC3 (R.G.) B4 (M.H. Super Range) B4 (M.H. Transport Desk) AC3 (R.G.) B4 (M.H.Super Range) B4 (Mains M.C.) B4 (Duplex Portable) AC4 (Duplex Transport.) B4 (Colonial Super)	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	1930/31 ,, 1931/32 ,, 1932/33 ,, 1931/32 1933/34 ,, ,,	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	3 0 0 3 0 0 6 0 0	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
PHILIPS. B3 (2502) B4 (2802) C2 (2515) DC2 (2523) DC3 (2523) DC3 (2523) DC3 (2524) AC3 (2514) DC3 (2524) B4 (2801) AC4 (2511) AC4 (2511) AC4 (2501) B5 (2522) B6 (2522) DC3 (2636 Radioplayer) AC4 (830A) DC4 (830A) B5 (832B) AC5 (630A) AC5 (834A) DC5 (834A) AC5 (56 Baby Grand) AC5 (56 Baby Grand)	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	1930/31 ,, ,, ,, ,, ,, ,, ,, ,, 1931/32 ,, 1932/33 ,, 1932/33 ,, 1932/33 ,, ,, ,, ,, ,, ,, ,, ,, ,,	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
PHLCO. AC5 (56 Baby Grand) AC5 (56 Lowboy) AC5 (55 Baby Grand) AC5 (55 Baby Grand) AC5 (55 Lowboy) DC8 (Superhet) DC4 (Superhet) B5 (237 Superhet) AC5 (4 Star Baby Grand) AC5 (5 Star Concert Grand)	$\begin{array}{c} \begin{array}{c} & 16 & 16 & 0 \\ & 23 & 2 & 0 \\ & 36 & 15 & 0 \\ & 14 & 14 & 0 \\ & 19 & 19 & 0 \\ & 30 & 9 & 0 \\ & 30 & 9 & 0 \\ & 16 & 16 & 0 \\ & 16 & 16 & 0 \\ & 16 & 16 & 0 \\ & 14 & 14 & 0 \\ & 0 & 21 & 0 & 0 \end{array}$	1932/33 ,, ,, ,, 1933/34 ,, ,,	3 0 4 4 2 0 2 5 2 10 1 10 1 15 4 0 3 15	7 7 0 15 15 0 4 10 0 6 0 0 6 10 0 3 10 0 3 15 0 12 12 0	3 9 6 4 7 6 2 18 6 2 9 8 6 15 4 6 0 2

Malas (Dens) - 1	Original			Resale Pric	e.
Make, Type and Description.	Price. £ s. d.	Year.	Min. £ s. d.	Max. £ s. d.	Average. £ s. d.
PORTADYNE. B4 (B.M.C.) B4 (Challenger) B4 (Atlantic) B2 (M.C.2) AC3 B4 (M.C.4) B4 (S.B.) AC6 (S/A.C.)	. 14 14 0 . 12 17 6 . 12 12 0 . 6 19 6 . 17 17 0 . 15 15 0 . 15 15 0	1932/33 1931/32 1932/33 1933/34 	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
PTE. B2 (232) B2 (275) AC2 (275C.) AC3 (350) B4 (460) B5 (25C. Port.) AC3 (350 Console) B4 (B4D, 78.) AC4 (A.C.4D.) AC3 (86.) AC3 (B4D, C.4D.) AC4 (A.C.4D.) AC3 (R.G.) AC3 (K.G.) AC4 (M.M.) AC4 (M.M.) AC4 (S. Superhet)		1930/31 " " " " " " " " " " " " " " " " " " "	$ \begin{smallmatrix} 0 & 7 & 6 \\ 0 & 8 & 6 \\ 1 & 0 & 0 \\ 1 & 5 & 0 \\ 0 & 18 & 9 \\ 1 & 5 & 0 & 0 \\ 2 & 0 & 0 \\ 2 & 0 & 0 \\ 3 & 0 & 0 \\ 1 & 0 & 0 \\ 4 & 10 & 0 \\ 4 & 10 & 0 \\ 2 & 10 & 0 \\ 2 & 10 & 0 \\ 3 & 10 & 0 \\ 2 & 10 & 0 \\ 3 & 10 & 0 \\ 2 & 10 & 0 \\ 3 & 15 & 0 \\ \end{smallmatrix} $	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
AC6 (Superhet) AC3 (Madrigal Console) . B4 (Class B.4)	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	1930/31 1933/34 	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	5 0 0 6 10 0 4 10 0 8 8 0 18 18 0	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
REGENTONE. AC2 AC3 AC3 (Superhet S.G.)	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	1931/32 1932/33	$\begin{array}{cccc} 0 & 10 & 0 \\ 0 & 17 & 6 \\ 1 & 10 & 0 \end{array}$	$ \begin{array}{cccc} 2 & 0 & 0 \\ 3 & 0 & 0 \\ 4 & 0 & 0 \end{array} $	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
STANDARD (Standard Telephones & Cables, Ltd.). B2 (S.328) AU2 (S.322) AC3 (S.330)	. 5 0 0 . 9 10 0 . 16 16 0	1932/33	$\begin{array}{cccc} 0 & 10 & 0 \\ 0 & 15 & 0 \\ 2 & 0 & 0 \end{array}$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
B3 (S.G. P.3)	8 8 0 10 10 0 12 12 0 10 10 0	1932/33 " 1933/34	$\begin{array}{ccccc} 0 & 15 & 0 \\ 1 & 0 & 0 \\ 1 & 10 & 0 \\ 2 & 0 & 0 \end{array}$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
TELSEN. B3 (S.91 W.L./S.) B3 (S.92) B3 (S.93) C3 (312 Golden Voice) AC3 (315)	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	1931/32 1932/33 1933/34	$\begin{array}{cccccccc} 0 & 12 & 6 \\ 0 & 10 & 0 \\ 0 & 10 & 0 \\ 1 & 10 & 0 \\ 2 & 0 & 0 \\ 2 & 10 & 0 \\ 0 & 10 & 0 \end{array}$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
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VARLEY. AC2 (A.P.1) PC3 (A.P.11) PC3 (A.P.12) AC4 (A.P.13) AC4 (A.P.13) AC4 (A.P. 14 R.G.) AC3 (Square Peak) AC3 (Square Peak)	15 15 0 16 16 0 26 0 0 26 0 0 89 15 0 17 17 0	1930/31 1931/32	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	1 0 6 1 4 8 2 14 5 2 8 7 9 9 8 3 3 5
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ZETAVOX. AC4 (A.G. Console) AC4 (A.G. Console) AC4 (A.P.T. Consolc) AC7 (S.T. Superhet) AC7 (S.G. R.G.) AC7 (S.G.T. R.G.)	., 19 19 0	1931/32			

The Broadcaster and Wireless Retailer



H.M.V. Console Five Model 444

 Dimensions
 33 in. × 20 in. × 11 in.

 Wavelength Range
 198-650, 800-1,950 metres

 Loading
 70 watts

 Ripple
 25 volt

 Price
 17 guineas

THE new H.M.V. model 444 makes full use of modern technical practice and incorporates attractive constructional features.

A console model, the set is mounted in a very handsome dark walnut cabinet standing on a plinth type of base. The tuning dial is mounted obliquely in a recessed portion at the top.

The controls are arranged on the face of the cabinet above a rectangular speaker grille. They provide for volume, tuning, tone and master switching. A push-pull movement of the volume control brings into operation a pre-set "Q" circuit giving silent tuning between stations.

Produced on typical H.M.V. lines, a very rigidly-constructed chassis has the valves arranged around the components in more or less logical order. Connections for aerial, earth, pick-up and extra speaker are carried on insulating panels at the back.

At the side of these is a hum-neutraliser and the adjustment for silent tuning. This can be set to suit local conditions and is actually brought into operation by pulling

out the main volume control knob. The circuit contains some interesting fea-tures. In the first place the frequencychanger, a MX40, is preceded by a band-pass input incorporating an image rejector circuit. A pair of coupled circuits feed the I.F. valve, which is a VMS4. A further pair of cir-cuits links an MHD4 double-diode triode connected to give delayed and quiet A.V.C. A simple resistance coupling is used between the triode portion and an MPT4 output pentode.

Refinements

Particular mention must be made of the various filter circuits, hum neutralising coils and tone compensated volume control, which

are all features improving the performance of an otherwise standard circuit. All the controls work excellently and the tuning scale is very clear. This is marked in main wavelengths and we found the calibra-

main wavelengths and we found the calibra-tion highly accurate. Tests immediately showed that the set is excellently designed. Sensitivity is high, selectivity good, and everything behaves very nicely. The quiet tuning arrangement was entirely effective when only a reasonable number of stations was required, and even under bad conditions the set appeared to have almost

conditions the set appeared to have almost

conditions the set appeared to have almost knife-edge selectivity with very quiet back-ground. The A.V.C. circuits are well de-signed and leave little to be desired. Making use of the full gain of the receiver in conjunction with a large aerial in the swamp area only the adjacent channels to the local stations were missed on the medium waves. Sensitivity is sufficient to give good room strength of all the main stations on a small inside aerial. small inside aerial.

On the long waves selectivity is nearly as good, although we obtained a little side splash on Deutschlangsender when 5XX was at work.

Quality is pleasing, the balance being good, with a reasonable amount of top



This modern walnut cabinet designed with an inclined tuning scale for ease of tuning, houses the new H.M.V. model 444 superhet "five."

response and brilliance and lower registers well in evidence.

The volume control circuits give the impression that the balance remains fairly constant irrespective of the setting of the control and this we regard as a very good feature.

In our opinion, the set is a definite advance on previous models employing a similar valve combination.

Exide "Ironclad" Cell

Dimensions 7 in, × 3½ in. × 3½ in. Ampere Hour Capacity 25.6 Price 11s. 6d.

THE Exide IFG-C accumulator is a 2-volt cell built on entirely new lines. The construction is very similar to that employed for traction batteries.

The paste is actually contained in slotted ebonic tubes, of which three are used, mounted side by side. The manufacturers claim that this construction gives the cell greater mechanical rigidity and as a result there is far less possibility of damage to the plates either electric-ally or mechanically. This means that an exceptionally satisfactory life should be obtained.

The cell is also fitted with the Exide charge indicator in the form of a pointer which is float-operated.

The position of the float varies according to the density of the acid, and the pointer is arranged to show full, half and empty states of charge.

The electrodes are supported on an insulat-ing plate which is sealed with the usual black compound. The terminal heads are shrouded the indication is by means of colour and together with non-interchangeable screws.

Finally there is an ordinary type of filling plug and an indicator plate for the owner's name. The cell is supplied with a carrying handle of the conventional type.

The handle fits the moulded cell nicely and is convenient to use. The *erminals are well away from any possible free acid, and the plates are rigidly assembled and firmly anchored. There is good sludge space.

During our discharge the position of the indicator was carefully noted, and it was found to give a true indication of the condi-

tion of the cell. The cell has a nominal rating of 27 ampere hours, and it will be seen that at the 100-hour rate we obtained a capacity which is just

below the nominal value. This we regard as

below the nominal value. This we regard as entirely satisfactory for a new cell. The new method certainly seems to give a very rigid construction. The plates, in fact, give the appearance of being far more robust than the conventional mass type of plate, and as the principle has been well tried in trac-tion practice there is every indication that the new cell should prove highly satisfactory.

Grosvenor Battery Receiver

Dimensions	17 in. × 15 in. × 9 in.
	200-550, 900-2,000 metres
	.5 amp.
Loading, H.T.	6 m.a.
Price	£8 15s.

TESTS' were recently carried out on a mains receiver introduced by Grosvenor

mains receiver introduced by Grosvenor Electric Batteries, Ltd., of Bowman's Place, Holloway, London, N.7. We have now examined the "companion" battery model. Mounted in a walnut finished cabinet with a small decorative grille, the set has a rectangular straight-line dial calibrated in wavelengths. Green and black colouring distinguishes the two wavehends.

distinguishes the two wavebands. Control is by three knobs which provide for tuning, master switching and volume. The volume control is ganged with a reaction condenser.

There are three connection sockets for an earth and two alternative aerials at the back of a stout aluminium chassis. A multiple cable connects the batteries, which are arranged to stand on a shelf forming a central compartment in the cabinet. The M.C. speaker is screwed to a separate baffle.

baffle. A link-coupled band-pass input is used to the first valve, which is a Mullard PM12M. A tuned anode circuit feeds the detector valve, a PM2DX, and the output of this is taken through a directly-connected transformer to a PM22A pentode. The resistance which controls the grid retartion of the PM12M valve is generated with

potential of the PM12M valve is ganged with the reaction condenser. An extension terminal on the grid of the detector valve

browides a pick-up connection. Selectivity of the set is good, and even with a large aerial in the swamp area we with a large aerial in the swamp area we had no difficulty in separating the local transmissions and obtaining several Con-tinental stations at very good strength between them. Sensitivity is well main-tained at both ends of the waveband and appears to be particularly even. Long wave selectivity is very good, and we obtained programme strength, with only slight side band splash, from Deutschlapd-sender with both Droitwich and Radio Paris at work.

at work.

Quality is very crisp, with a predominance

of the middle and upper registers. Model G.100, as the set is known, is definitely capable of giving a very good all-round performance with a reasonable battery consumption.



The Grospenor model G.100 three-valve as a battery set. Ganged volume and reaction (a) controls simplify operation.



FOR TEST & SERVICE

Test and Service Engineers find BROWN MODULATED OSCILLATORS indispensable for rapidly and accurately diagnosing faults in receivers. Laboratory and portable models are available for A.C., A.C./D.C., and Battery operation, and prices are very moderate. Send for complete literature.

NOTE THESE VALUABLE POINTS

- Long life. Two standard models have to date completed 7,000 hours' continuous working without adjustment or change of valves.
 Percentage of returns since commencement of manufacture less than .5 per cent.
 R.F. output more constant than that of most simple oscillators.
 Harmonic Content is low.
 Employs only one valve. Upkeep costs are low.
 Operate on the fundamental thus avoiders

- 6.
- are low. Operate on the fundamental, thus avoiding the disadvantages of harmonics. Modulation control ensures perfect sinoidal note at all wavelengths, and variable modulation depth on external modulation

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DRODUCTION FOREMAN required for all types of radio condenser manufacture, including electrolytics and paper. London area.—Details of experience, age, and salary required, to Box U.483, BROADCASTER Office. Feb. 9.

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YOUNG MAN, age 29, seeks situation in London as Radio Engineer or Manager. At present runs own business, does own servicing of all latest receivers, and electrical repairs. Private reason for seeking situation (not financial). — Write full particulars and wages to Box Q.479, BROADCASTER Office. Feb. 9.

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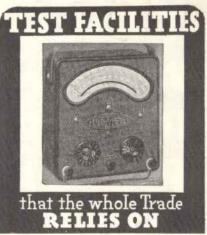
WANTED

SETS wanted, new or shop-soiled, current S or surplus; manufacturens' present and future markets protected. Highest London prices paid. Spot cash.—Philip Kay, Ltd., 167, City Road, London, E.C.1. T.C.

FOR SALE

DIGGLES 1B Motor Generator Charging D Plant, 150v. 2 amps., four-circuit board with cut-out. Only few months old. Can be seen working.—Box W.485, BROADCASTER Office. Feb. 9.

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Unive D.C.)

The Universal Avometer gives no less than 36 ranges of *direct* readings (A.C and D.C.) of current, voltage and resistance, without external shunts or multipliers. The movement is dead-beat and a mirror on the 5-in. scale obviates parallax errors. The world's largest and most important radio and electrical undertakings depend on the unfailing precision of the Universal Avometer. It is the ONE instrument that facilitates EVERY test. 36-range Also the

Avometer 12GNS.	13-range D.C. BGNS Avometer
Deferred terms	if desired.

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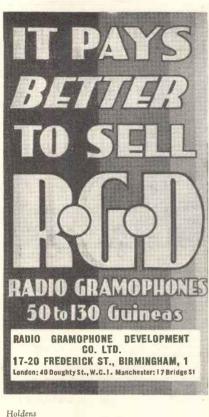
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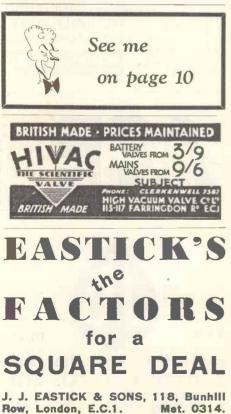




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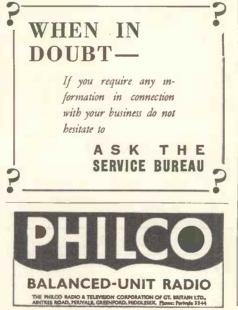


The Broadcaster and Wireless Retailer

February 9, 1935



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