

The WIRELESS & GRAMOPHONE TRADER

Incorporating "The WIRELESS and ALLIED TRADES REVIEW" "The RADIO TRADE JOURNAL" and "The WIRELESS DEALER"

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August 16th, 1930.

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'POLY' HOLDS THE NAP HAND!

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OF REPUTE

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ZONOPHONE REGAL
EDISON BELL WINNER
AND RADIO RECORDS
AND EVERY CONCEIVABLE
GRAMOPHONE ACCESSORY
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J **GRAMOPHONES**
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OF
**DULCETTO AND
SYMPHONION
GRAMOPHONES**
NEW 1930/31
RANGE
NOW READY

DULCETTO-POLYPHON LTD
(Factors and Manufacturers)

LONDON: 2/3 Newman Street.

GLASGOW: 27 Jamaica Street.

MANCHESTER: 31 Quay Street.

Gramophones and Radio all on one account!

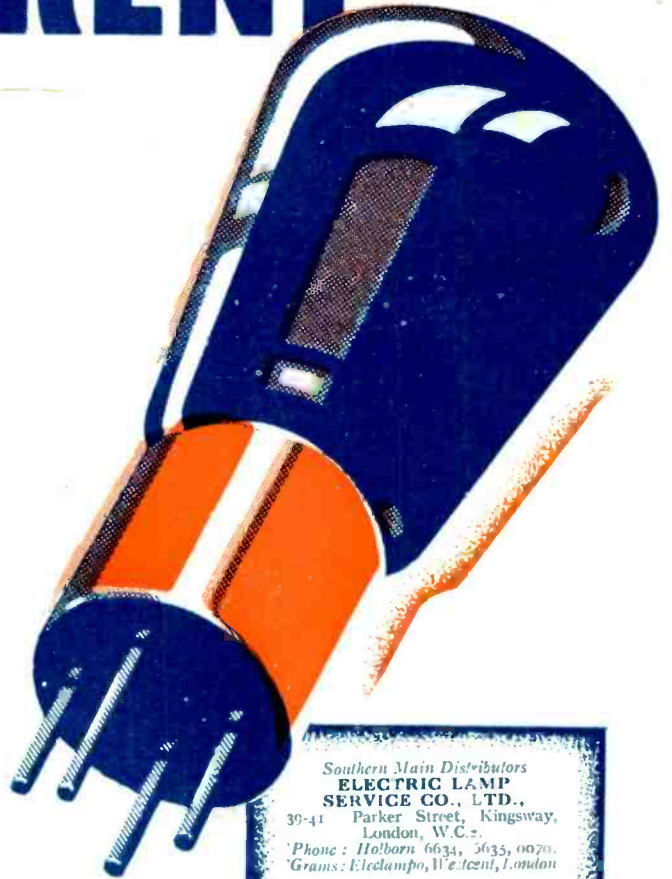
GREATER EFFICIENCY ON LESS CURRENT

THERE is no valve being manufactured in Europe to-day that can show such wonderful characteristics in conjunction with great economy of current consumption as the Triotron Super Detector S.D.2.

➡ **SLOPE 1.7 mA/V** ⚡
MAG. FACTOR 21
FIL. CURRENT 0.14 ⚡

The detector valve is the most important factor in long distance reception and the Triotron S.D.2 is the best detector that money can buy. No other factory in Europe has succeeded in achieving such a combination of steep slope, high magnification factor, and low current consumption.

Next time you are asked by your customers how they can improve the range of their sets advise them to use a Triotron S.D.2 in the detector stage and the results will delight them.



TRIOTRON
 THE AGE OF VALVES

Southern Main Distributors
ELECTRIC LAMP SERVICE CO., LTD.
 39-41 Parker Street, Kingsway, London, W.C.2.
 Phone: Holborn 6634, 2635, 0070.
 Grams: Eledlambo, Westcent, London

Northern Main Distributors
CHORLTON METAL Co. Ltd.
 18 Amber St., Sudehill, Manchester.
 Phone: Manchester Blackfriars 7637
 (Plz. Br. Ex.)
 Grams: Chorinet, Manchester.

Main Distributors for Northern Ireland: Messrs. Sloan & Company,
 7, Corporation Street, Belfast.
 Telephone: Belfast 2020.

Main Distributors for Irish Free State: The Briscoe Importing Co., Ltd.,
 9, Aston's Quay, Dublin.
 Telephone: Dublin 1351.

TRIOTRON RADIO Co. Ltd.
 91, Gt. Russell St., London, W.C.1.
 Phone: Museum 1908. Grams: Radiomet, Westcent, London (Technical & Overseas enquiries should be sent exclusively to the above address.)

"EKCO" 1930-31 PROGRAMME AND POLICY

A Summary of all "EKCO" 1930-31 All-Electric Products follows on the next 7 pages. Keep this Summary by you until you receive a copy of our new Season's Dealers' Catalogue! See that your name is on our mailing list.

Keeping ahead in radio—foreseeing next season's demand and meeting it before competitors—ready to give your customers the best in radio reception for years to come—definitely the radio of to-day and the future—that's "EKCO," the foremost name in British Electric Radio, pioneers of the "ALL-ELECTRIC" Unit and specialists all the time.

THE "EKCO" 1930-31 FULL RANGE

- | | |
|---|---|
| 1. ALL-ELECTRIC SETS. | 6. ALL-POWER UNIT—Specially designed for manufacturers. |
| 2. LOUD-SPEAKERS—Moving-Coil and Cone. | 7. L.T. UNIT. |
| 3. ALL-POWER UNITS. | 8. RECTIFIER UNIT. |
| 4. H.T. UNITS. | 9. TRICKLE CHARGER. |
| 5. COMBINED H.T. UNIT & L.T. CHARGER, & H.T. UNITS FOR PORTABLES. | 10. ISOLATING TRANSFORMER |

ASTOUNDING NEW SET FEATURES

The new "EKCO" Sets are beyond your most sanguine expectations. They incorporate two entirely original and exclusive features:—

1. Bakelite cases of a rare and choice design in three colourings which match harmoniously with almost every furnishing scheme. These colourings are dark jade, dark mahogany and medium oak.
2. Loud-speakers which are completely matched with the Sets in colourings, cabinet design and proportions, and performance.

Sets and Loud-speakers, therefore, form one harmonious whole, a unique selling feature that is assured of wide popularity.

A big forceful Advertising Campaign starts in September and continues persistently throughout the year. Remember "EKCO" is one of the few radio firms to back your stocks during every month of the twelve with National Advertising. "EKCO" will continue to do so.

Back this Advertising Campaign by making showmanship an integral part of salesmanship. You can do this by displaying a varying range of the new 1930-31 "EKCO" Sales-Aids shown in this supplement.

NEW AND BIGGER DISCOUNTS

RETAIL TRADE DISCOUNT ON "EKCO-LECTRIC" SETS AND LOUD-SPEAKERS IS NOW 33½ per cent. ON UNITS IT REMAINS AS HERETOFORE AT 30%.

EVEN BETTER DEFERRED PAYMENT TERMS

Deferred Payment Terms in respect of "EKCO-LECTRIC" Sets and combinations of Sets and Loud-speakers are now extended to a period of TWO YEARS INSTEAD OF ONE YEAR.

On all other "EKCO-LECTRIC" products it remains the same as before—one year.

For full details see last page of this summary.

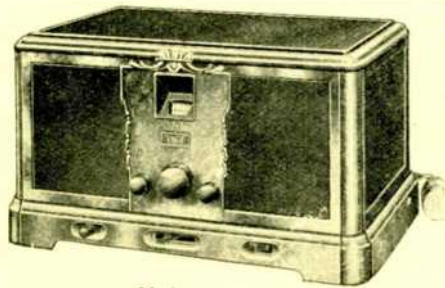
"EKCO"

ALL-ELECTRIC RADIO



"EKCO-LECTRIC" RADIO RECEIVERS

Owing to the very exceptional and outstanding merits of these new receivers, their excellent performance all over the country, and the general expression of admiration made in regard to them during the recent tour of our Managing Director and Sales Manager, we have decided to concentrate all our efforts upon them.



Model 313.

Both receivers are housed in beautiful moulded tenacit bakelite cabinets of exquisite design which are available in three tones, viz., Dark Jade, Dark Mahogany, and Medium Oak.

Run entirely from electric supply. Simple to control. Pure reproduction, immense volume. Lifelike selectivity. Purity of reproduction is ensured by the "EKCO" Low Frequency Transformer, which has a high permeability nickel alloy core.

Westinghouse Patent Metal Rectification (under licence) is incorporated.

"EKCO-LECTRIC" Receivers supplied for use on the following mains voltages :

D.C. 200-250. A.C. (a) 200-250, 40-100 cycles.

(b) 100-120, 40-100 cycles.

MODEL 313

Three valves. Screened Grid, Detector and Power Pentode.

Outstanding Features

No aerial necessary. Single knob tuning control. Output impedance adjustable to match loud-speaker. Compensator for range and selectivity. An exceptional degree of selectivity can be achieved and varied at will. Sockets for connecting Moving Coil Loud-Speaker. Tuning dial calibrated in wavelengths. Sockets for Gramophone Pick-Up.

WAVELENGTHS

(1) 200-550 metres.

(2) 850-1,900 metres.

Single switch changes from high to low waveband. Weight 20 lbs.

Price D.C. or A.C. .. £22 . 10 . 0.
(For 25 cycle A.C. Mains £25 . 0 . 0.)

MODEL 312

Two Valves. Detector and Pentode.

Outstanding Features

Indoor aerial may be used. An exceptional degree of selectivity can be achieved and varied at will. Sockets for Gramophone Pick-Up. Single knob tuning control.

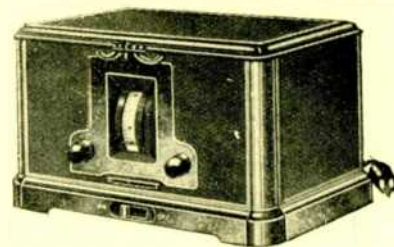
WAVELENGTHS

(1) 200-550 metres.

(2) 1,000-1,900 metres.

Single switch changes from high to low waveband. Weight 15 lbs.

Price D.C. or A.C. £14 . 10 . 0 (For 25 cycle A.C. Mains £16 . 0 . 0.)



Model 312.



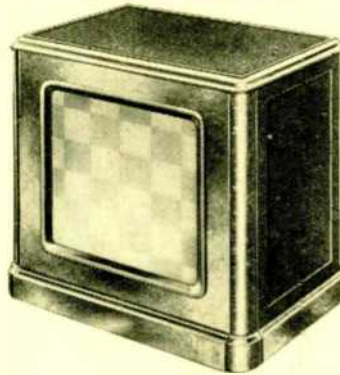
“ EKCO ” LOUD-SPEAKERS

The models described are housed in handsome moulded tenacit bakelite cabinets in shades of dark jade, dark mahogany and medium oak to match receiver models 312 and 313, making a harmonious combination. Speaker rests on top of model 313, model 312 fitting on top of Loud-speaker.

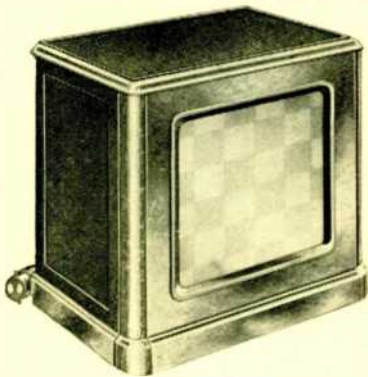
“ EKCONE ” MODEL L.S.1 CONE LOUD-SPEAKER.

An excellent Cone Speaker employing balanced armature movement. Specially designed for use with 312 Receiver, but can be used equally successfully with Model 313. The quality of reproduction is the best that can be obtained with any Loud-speaker other than a Moving Coil.

Price £4 . 10 . 0



“ EKCOIL ” MODEL L.S.2 MOVING COIL LOUD-SPEAKER



This Loud-speaker incorporates a Moving-Coil action of the very latest type. Designed to give the finest reproduction with Receivers 313 and 312. The current for the field magnet is supplied from the electric mains. The correct input transformer is built into the Loud-speaker, and the impedance can be adjusted to suit different conditions and different output valves by means of alternative sockets. Faithful reproduction is given over the whole musical scale. Speech is clear and free from “boom.” This Loud-speaker handles ample volume for home use.

Price D.C. £8 . 12 . 6

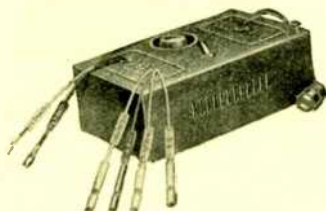
A.C. £11 . 0 . 0

(The A.C. model can be supplied for use on 25 cycle mains without extra charge.)



"EKCO" ALL-POWER SUPPLY UNITS

Comprising Models CP1, C1A and C2A for A.C. Mains and Model C2B for D.C. Mains. Eliminate all batteries and accumulators by providing the complete H.T., L.T. and G.B. supply for Radio Sets. Simple to instal as an H.T. Unit. No alteration necessary to existing wiring of the Receiver and no valves or lamps employed. Westinghouse Rectification is incorporated under licence for A.C. Models, both for H.T. and L.T.



MODEL CP1 A.C. £6 - 0 - 0
 Combined H.T. and L.T. Charger for A.C. Mains.

(Size $9 \times 5 \times 3\frac{1}{2}$)
 Eliminates H.T. Batteries and keeps L.T. Accumulator fully charged—fits into any type of Portable and for use with all types of receivers up to 5 valves consuming up to 20 m/a.

H.T. Output Tappings

S.G. 60-80 volts for Screen of Screened Grid Valves. 0-120 volts variable between 0 and 120 volts and any current from 1-6 m/a. approx. supplying exact voltage required for Detector Valve.

Output from this tapping can be reduced to 100 volts by special plug and two sockets, thus making it suitable for sets not requiring more than 100 volts.

Made for A.C. Mains voltages: (a) 200-250 v. 40-100 cycles. (b) 100-120 v. 40-100 cycles.



MODEL C2A A.C. £10 - 17 - 6
 (Size $11\frac{1}{2} \times 9\frac{1}{2} \times 5\frac{1}{2}$)

- (a) H.T., 3 tappings of. S.G. for H.T. supply to S.G. Valves. 60 and 120/150 V. Output 20 m/a.
- (b) L.T. 2-6 volts from .2 amp. min. to .5 amp. max., being suitable for any combination of valves of the same filament voltage, provided that the sum total of current consumed by the filaments does not exceed .5 amp.
- (c) G.B. 5 tappings up to 12 volts.



MODEL C1A A.C. £17 - 15 - 0
 (Size $12\frac{1}{2} \times 12 \times 5\frac{1}{2}$)

- (a) H.T. 4 voltage tappings of. S.G. for H.T. supply to S.G. Valves. 0-120 variable. 120/150 and Power. Output 60 m a.
- (b) L.T. 2-6 volts from .3 amp. min. to 1 amp. max., being suitable for any combination of valves of the same filament voltage, provided that the sum total of current consumed by the filaments does not exceed 1 amp.
- (c) G.B. 7 tappings up to 21 volts.



MODEL C2B D.C. £6 - 17 - 6
 (Size $11\frac{1}{2} \times 9\frac{1}{2} \times 5\frac{1}{2}$)

- (a) H.T., 4 voltage tappings of. S.G. for H.T. supply to S.G. Valves. 60, 120/150, 170 V. Output 25 m a.
- (b) 2-6 volts from .2 amp. min. to .4 amp. max., being suitable for any combination of valves of the same filament voltage, provided that the sum total of current consumed by the filaments does not exceed .4 amps.
- (c) G.B., 5 tappings up to 12 volts.



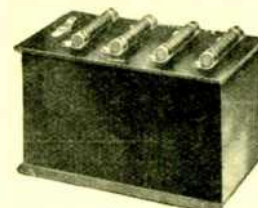
"BUILD-IN" ALL-POWER UNIT
MODEL ACV A.C. £6 - 0 - 0
 (Size $9\frac{1}{2} \times 7\frac{1}{2} \times 4\frac{1}{2}$)

Specially designed to appeal to Manufacturers and to Home Constructors. The Manufacturer and Home Constructor is provided with a compact unit, which when built in as a component part of the set makes it All-Electric. The "Power" section is kept apart from the receiver circuit, ensuring ease and simplicity of assembly.

Specification

Output L.T. (Raw A.C.). 4 volts at from 2-4 amp. for indirectly heated valves. 6 volts at .25 to 1 amp. for directly heated valves. H.T. (smoothed). 150 volts at 30 milliamperes. 80 volts for S.G. Valves at .5 to 1.5 m/a. G.B. 1, 3, 6, 9 and 15 volts.

Westinghouse Rectification is utilised on the voltage doubling principle. Lugs are fitted to the case so that it can be secured to the Receiver. Soldering tags are affixed to bakelite panels for making connections. Although L.T. windings are connected to common centre tapping, facilities are provided for using a potentiometer if necessary.



CONTROL UNIT £1 - 5 - 0
 (Size $4\frac{1}{2} \times 2\frac{7}{8} \times 2\frac{3}{8}$)

A standard auxiliary to the model ACV and embodies all resistances and condensers to give two lower values of H.T. and G.B. Consequently by the use of both units the set need not include anything but the ordinary receiver components.

"EKCO" H.T. UNITS



(Size $5\frac{1}{2} \times 3\frac{1}{2} \times 2\frac{1}{2}$)

MODEL 2F.10 D.C.

60 volts at 2 m/a. approx.
120 volts at 8 m/a. approx.

Note.—If the 60-volt tapping is not used, 120 volts at 10 m/a. can be obtained from 120 tapping.

10 MA

Suitable for 1-3 valve sets or those requiring not more than 10 milliamperes.
2 voltage tapplings.

£1 . 9 . 6



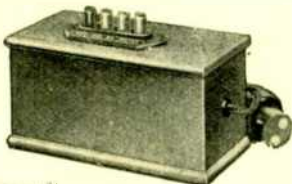
(Size $7\frac{1}{4} \times 6\frac{1}{4} \times 4\frac{1}{4}$)

MODEL 2A.10 A.C.

60 volts at 2 m/a. approx.
120 volts at 8 m/a. approx.

Note.—If the 60-volt tapping is not used, 120 volts at 10 m/a. can be obtained from 120 tapping.

£3 . 10 . 0



(Size $8\frac{1}{2} \times 3 \times 2\frac{1}{2}$)

MODEL 3F.20 D.C.

S.G. 60-80 volts for screen of S.G. Valves.
60; 60 volts at approx. 3 m/a.

120/150; 120 volts at 16 m/a. or up to 150 volts at 10 m/a.
Note.—If the 60-volt tapping is not used, then 120 volts at 18/19 m/a. or 150 volts at 12 m/a. can be obtained from the 120/150 tapping.

£1 . 17 . 6

20 MA

Suitable for 1-5 valve sets or those requiring not more than 20 milliamperes.
3 voltage tapplings.



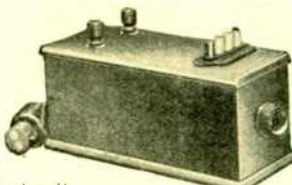
(Size $7\frac{1}{4} \times 6\frac{1}{4} \times 4\frac{1}{4}$)

MODEL 3F.20 A.C.

S.G. 60-80 volts for screen of S.G. Valves.
60; 60 volts at approx. 3 m/a.

120/150; 120 volts at 16 m/a. or up to 150 volts at 10 m/a.
Note.—If the 60-volt tapping is not used, then 120 volts at 18/19 m/a. or 150 volts at 12 m/a. can be obtained from the 120/150 tapping.

£3 . 19 . 6



(Size $7\frac{1}{4} \times 3\frac{1}{2} \times 3\frac{1}{2}$)

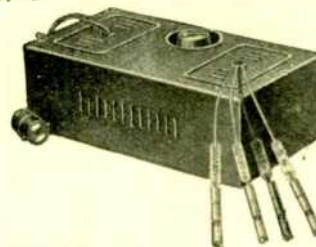
MODEL 1V.20 D.C.

S.G. 60-80 volts for screen of S.G. Valves.
0-120; Variable between 0 and 120 volts at any current from 1-6 m/a. approx.
120/150; 120 volts at 16 m/a. or up to 150 volts at 10 m/a.

£2 . 10 . 0

20 MA

Recommended for use with all Portable sets.
3 voltage tapplings.



(Size $9 \times 5 \times 3\frac{1}{2}$)

MODEL 1V.20 A.C.

S.G. 60-80 volts for screen of S.G. Valves.
0-120; Variable between 0-120 volts at current from 1 to 6 m/a. approx.
120/150; 120 volts at 16 m/a. or up to 150 volts at 10 m/a.
By special plug and two sockets the output from this tapping can be reduced to 100 volts.

£4 . 12 . 6



(Size $7\frac{1}{4} \times 6\frac{1}{4} \times 4\frac{1}{4}$)

MODEL 1V.30 D.C.

S.G. 60-80 volts for screen of S.G. Valve.
0-120; Variable between 0-120 volts at any current from 1-6 m/a. approx.
120/150; 120 volts at $5\frac{1}{2}$ m/a. or up to 150 volts at $2\frac{1}{2}$ m/a.
150/170; 150 volts at 25 m/a. or up to 170 volts at 20 m/a.
Total output of Unit: 30 m/a. at 150 volts.
25 m/a. at 170 volts.

£2 . 19 . 6

30 MA

Suitable for multi-valve sets, or those not requiring more than 30 milliamperes.
4 voltage tapplings.

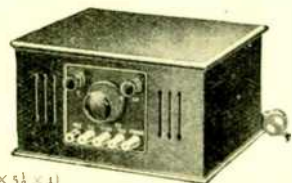


(Size $11\frac{1}{4} \times 8 \times 4\frac{1}{4}$)

MODEL 1V.30 A.C.

S.G. 60-80 volts for screen of S.G. Valve.
0-120; Variable between 0-120 volts at any current from 1-6 m/a. approx.
120/150; 120 volts at $5\frac{1}{2}$ m/a. or up to 150 volts at $2\frac{1}{2}$ m/a.
150/170; 150 volts at 25 m/a. or up to 170 volts at 20 m/a.
Total output of Unit: 30 m/a. at 150 volts.
25 m/a. at 170 volts.

£5 . 15 . 0



(Size $9\frac{1}{2} \times 5\frac{1}{2} \times 4$)

MODEL 4T.60 D.C.

S.G. 60-80 volts for screen of S.G. Valves.
0-120; Variable between 0-120 volts at any current from 1-14 m/a. approx.
120-150; 120 volts at 16 m/a. up to 150 volts at 11 m/a.
Power: 200 volts at 25 m/a. or up to 175 volts at 31 m/a. or up to 150 volts at 50 m/a.

£3 . 15 . 0

60 MA

1 voltage tapplings.

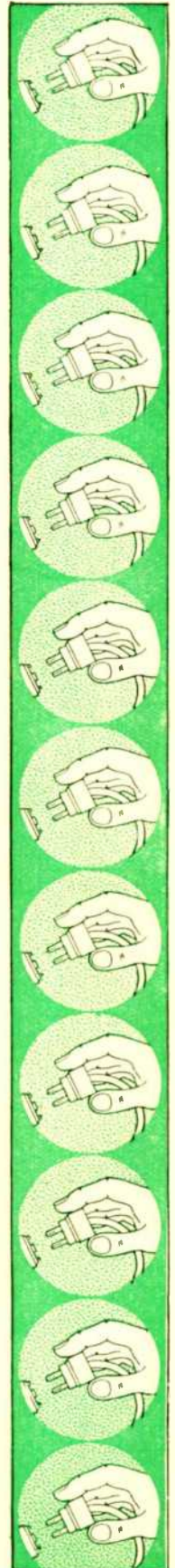


(Size $11\frac{1}{4} \times 6\frac{1}{4} \times 5\frac{1}{4}$)

MODEL 4A.60 A.C.

S.G. 60-80 volts for screen of S.G. Valves.
0-120; Variable between 0-120 volts at any current from 1-14 m/a. approx.
120-150; 120 volts at 16 m/a. up to 150 volts at 11 m/a.
Power: 200 volts at 25 m/a. or up to 175 volts at 31 m/a. or up to 150 volts at 50 m/a.

£8 . 10 . 0

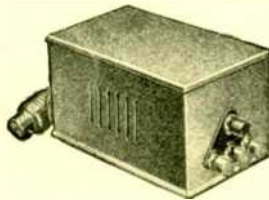


OTHER "EKCO" UNITS

TRICKLE CHARGER

MODEL T.500 A.C. Charges 2, 4 or 6 volt accumulators at $\frac{1}{2}$ amp. continuously from A.C. Mains and may be utilised for exciting the field of moving-coil Loud-speakers (6v. .5 amp. type) direct from A.C. Mains without use of an accumulator of any description. Charging cost approximates to 80 hours for 6d. with electricity at 6d. per unit. It is self-contained and includes a sturdy step-down transformer with highly insulated windings. State mains voltage when ordering.

Price £2 . 12 . 6



T.500
Size $7\frac{1}{2} \times 4\frac{1}{2} \times 4\frac{1}{2}$

RECTIFIER UNIT

MODEL RA.20 Enables D.C. High Tension Units of an output up to 20 m/a to be used on A.C. Mains. This unit therefore prevents a D.C. unit becoming useless when a D.C. supply is changed to A.C., or when an owner of a D.C. unit removes to an A.C. district.

Price £3 . 10 . 6



RA.20.
Size $7\frac{1}{2} \times 6\frac{1}{2} \times 4\frac{1}{2}$

Rectifier Units with an output of more than 20 m/a supplied specially to order.

L.T. UNIT FOR A.C. MAINS

MODEL L.T.1 A.C. Provides L.T. current only from A.C. Mains for 2, 4 to 6 volt valves up to 1 amp. No alteration necessary to Receivers.

This Unit is also most suitable for use in conjunction with an A.C. H.T. Unit as a socket is provided, into which can be plugged the adaptor of an H.T. Unit. A switch is fitted on this L.T. Unit, which then controls both the H.T. and L.T. supply.

Provides 2-6 volts from .3 amp. min. to 1 amp. max. Suitable for any combination of valves of the same filament voltage, provided that the sum total of current consumed by the filaments does not exceed 1 amp.

Price £8 . 15 . 0



MODEL L.T.1 A.C.
Size $11\frac{1}{2} \times 8 \times 4\frac{1}{2}$

ISOLATING TRANSFORMER

Model I.Tr. A double-wound transformer of 1-1 ratio for isolating the Loud-speaker or telephones from a receiver where a Power Supply Unit is used.

This component, connected between the output terminals of the Receivers and the Loud-speaker or 'phones, prevents any possibility of receiving a shock from the Loud-speaker, 'phones or wires connecting them.

Price 15s. 0d.



MODEL I.Tr.
Size $3\frac{1}{2} \times 3\frac{1}{2} \times 2\frac{1}{2}$

"EKCO SALES AIDS"

Your shop window is of vital importance in creating sales. At a recent Publicity Convention the proprietor of a chain of retail stores stated that a well-dressed, attractive window added 20 per cent. to his turnover. One certain way to make your window bring this extra 20 per cent. is to display the 1930/31 range of "EKCO" Sales-Aids. Its keynote is "Brighter and Better Windows."

LITERATURE

"EKCO" literature is standard in design and shape, 5½ in. by 3½ in., and comprises five folders in all: Three on Units, H.T., Portable and All-Power. One on Easy Payment Terms and one on "EKCO"-LECTRIC Radio Receivers. The folder on the Receivers is beautifully printed in Three-Colour Half Tone showing the harmonious colourings of the "EKCO" Sets. Every Folder has on its back a cross reference to the other "EKCO" Products, so that the reader is at all times acquainted with the full range. Ample room is provided on the back page for the overprinting of your name and address and telephone number.

DISPLAY MATERIAL

Here is a complete list of the new 1930/31 "EKCO" Sales-Aids:—

Crown Bill, 20 in. by 15 in., strong simple colouring, under the headline of "You know this man of . . ." We overprint the name of the town in which your shop is situated and an unsolicited testimonial received from a local "EKCO" Set owner. A very forceful sales-aid that brings splendid results.

Double Crown Bill, 30 in. by 20 in., picturing "EKCO" Products with full details as to prices, etc. In the background is shown the new "EKCO" factory. A compelling bill that is in great demand.

Streamer, 35 in. by 7½ in., in green and black, on "EKCO" Portable Units. An unusual and very modern design giving all particulars.

Streamer, 35 in. by 7½ in., indicating that "EKCO" Products are available on Easy Payments under the intriguing headline of "For leisure hours pay the leisurely way."

Name Card, 9 in. by 6 in., neat, compelling and telling what the name "EKCO" stands for.

Price Card, 6 in. by 6 in., designed to match harmoniously with "EKCO" Products and Window Displays. A symmetrical card which will appeal to every Dealer.

Matched Showcards, 28 in. high by 7 in. One is on Sets and one on Units. A new idea in showcard presentation. Unusual in shape. Rich in colourings with an atmosphere of genuine quality.

Cut-out, 28 in. wide by 24 in., on Sets. A dominant Cut-out, in bright colourings. Designed especially to enable the small Dealer to build up regular returns on "EKCO" Sets.

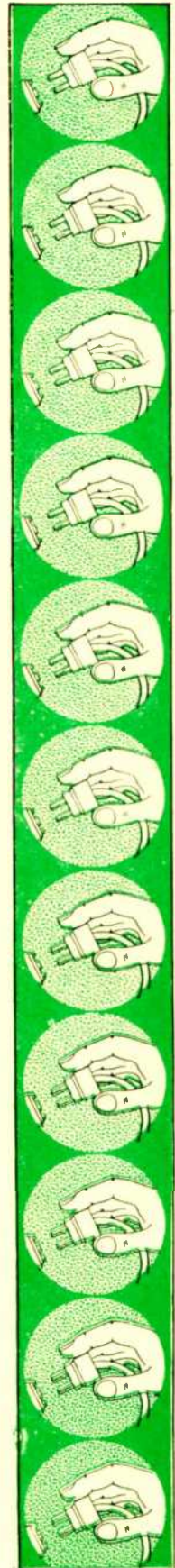
WINDOW DISPLAY

Strong! Striking! Selling! This "EKCO" window display is both unique and original, comprising five boxes of varying measurements. Easily and quickly fitted in twenty minutes. Adaptable to any size or shaped window in a number of different ways. Its colourings of orange, black and silver are designed in perfect harmony and create an impression of good taste and good goods.

You will readily see how easy it is to arrange different displays. A minimum size display with three pieces only would be 46 ins. high and a maximum width not more than 58 in. A full-size display of the five boxes could be arranged in a maximum width of 81 in. and the same height of 46 in.

As the display is yours to keep, and as the boxes are readily collapsible and take up very little storage place, you can feature another display at a later date. Full instructions are given with each display.

**SEE THAT YOU WRITE TO THE PUBLICITY DEPARTMENT
E. K. COLE, LTD., "EKCO" WORKS, SOUTHEND-ON-SEA.**



SUMMARY OF "EKCO" PRODUCTS

WITH PARTICULARS OF DEFERRED PAYMENTS

ONE YEAR. TWO YEARS.

"EKCO" Device Model No.	Cash Price	Initial Payment	And 11 Monthly Payments of	Initial Payment	And 23 Monthly Payments of
	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.
"EKCO-LECTRIC" RECEIVER.					
312	14 10 0	1 5 6	1 6 4	2 3 6	0 12 7
313	22 10 0	1 19 6	2 0 11	3 7 6	0 19 7
LOUD-SPEAKERS.					
LS.1 "EKCO"	4 10 0	0 8 0	0 8 2	—	—
LS.2 D.C. "EKCOIL"	8 12 6	0 15 0	0 15 8	—	—
LS.2 A.C. "EKCOIL"	11 0 0	0 19 3	1 0 0	—	—
RECEIVERS AND LOUD-SPEAKERS.					
"EKCO" 312 & LS.1	19 0 0	1 13 3	1 14 7	2 17 0	0 16 6
312 & LS.2 D.C.	23 2 6	2 0 6	2 2 1	3 9 6	1 0 1
312 & LS.2 A.C.	25 10 0	2 4 9	2 6 4	3 16 6	1 2 2
"EKCO" 313 & LS.1	27 0 0	2 7 3	2 9 1	4 1 0	1 3 6
313 & LS.2 D.C.	31 2 6	2 14 6	2 16 7	4 13 6	1 7 1
313 & LS.2 A.C.	33 10 0	2 18 9	3 0 11	5 0 6	1 9 2
H.T. UNITS.					
2F.10 D.C.	1 9 6	—	—	—	—
2A.10 A.C.	3 10 0	0 6 3	0 6 5	—	—
3F.20 D.C.	1 17 6	—	—	—	—
3F.20 A.C.	3 19 6	0 7 0	0 7 4	—	—
1V.20 D.C.	2 10 0	0 6 0	0 4 7	—	—
1V.20 A.C.	4 12 6	0 8 0	0 8 5	—	—
1V.30 D.C.	2 19 6	0 6 0	0 5 5	—	—
1V.30 A.C.	5 15 0	0 10 0	0 10 6	—	—
4T.60 D.C.	3 15 0	0 6 6	0 6 10	—	—
4A.60 A.C.	8 10 0	0 15 0	0 15 6	—	—
ALL-POWER UNITS.					
C1.A A.C.	17 15 0	1 11 0	1 12 4	—	—
C2.B D.C.	6 17 6	0 12 0	0 12 6	—	—
C2.A A.C.	10 17 6	0 19 0	0 19 9	—	—
A.C.V. "Build In"	6 0 0	0 10 6	0 10 11	—	—
Control Unit	1 5 0	—	—	—	—
A.C.V. "Build In" with Control Unit	7 5 0	0 12 9	0 13 2	—	—
CP.1 Portable	6 0 0	0 10 6	0 10 11	—	—
L.T. UNIT					
LT.1 A.C.	8 15 0	0 15 4	0 15 10	—	—
RECTIFIER UNIT.					
RA.20	3 10 6	0 6 3	0 6 5	—	—
TRICKLE CHARGER.					
T.500	2 12 6	0 6 0	0 4 9	—	—
ISOLATING TRANSFORMER.					
I/Tr	0 15 0	—	—	—	—

Tune in to "EKCO"! Electrify your sales with "EKCO-LECTRIC" sellers! Meet the overwhelming demand for Electric Radio with the most advanced technique in Electric Radio—"EKCO"!

IT WILL PAY YOU TO READ THIS

**“MONARCH” AND
“CROMWELL” RECEIVERS**

ANOTHER

*Unsolicited
Testimonial*

*Nest Town,
Hayling Island.
July 27th. 1930*

*Dear Sirs, I am enclosing a further
installment of 15/6 on my "MONARCH" Receiver
and am pleased to say that owing to its
splendid performance I have succeeded in
getting you another customer who is having
a Set like mine, but he is getting it from
one of your Agents on the Island.*

*He bought a Set 6 months ago and
paid £10 for it exclusive of Valves and
Batteries and my Receiver which had a
Loud Speaker incorporated only cost
£7.7.0.*

My set beats it in every way.

*I remain,
A Satisfied Customer,
M— M—.*

Our New Models will
offer even greater value.

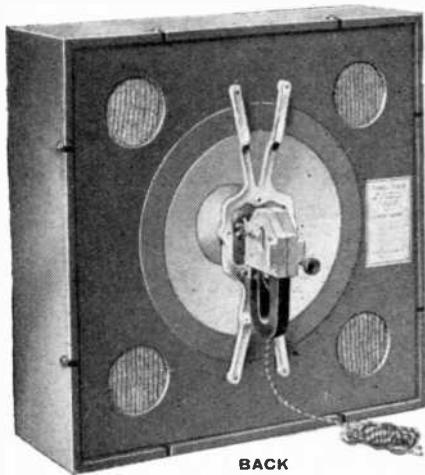
See them at the
**OLYMPIA
EXHIBITION**
STAND NO. 11

Write for new illustrated
list.

The original together with many other
Testimonials may be seen at our Head Office.

W.M. DIBBEN & SONS, LTD.
ST. MARY'S ROAD SOUTHAMPTON.

A NEW WONDER SPEAKER



BACK

Tricone Chassis, with fitting to take any Unit

Retailing at **29/6**

Tricone Chassis, complete with the wonder KOHINOOR Unit ..

54/6

3 IN ONE

Result of research and long endeavour—a new wonder Speaker makes its bow. The PRIMUS TRICONE... a masterpiece that brings to life the whole truth and nothing but the truth in broadcast speech and music.

Three cones in one—a really perfect combination of matched diaphragms in a master-built chassis. Whether used with the special "KOHINOOR" or any popular balanced armature unit, it responds with sensitive accuracy to ALL frequencies of the musical scale.

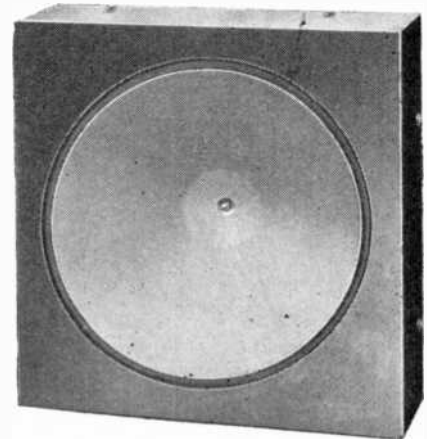
Amazingly rich in tone, astonishingly faithful in reproduction, tremendous undistorted volume, it is positively better for demonstration purposes than anything else you may have heard. It sells itself because it's irresistible.

THE PRIMUS MFG. CO.
PRIMUS HOUSE,
WILLOW STREET, LONDON, E.C.2

Regd. Design No. 748947.
Patents Pending.

7 DAYS' FREE TRIAL

Hearing is believing! Send for a PRIMUS TRICONE Chassis or Complete Speaker. Use it for demonstration purposes for seven days. If you are not entirely satisfied, return it without compunction.

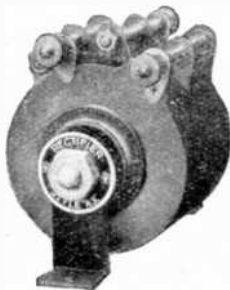


FRONT

PRIMUS TRICONE

WESTINGHOUSE RECTIFIERS FOR LOW TENSION MAINS UNITS

9 volts 1 amp.



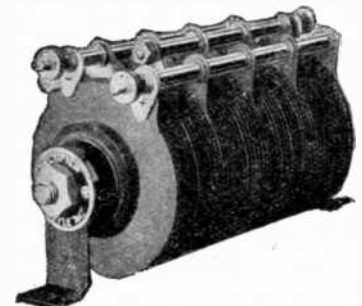
Type A.3. 23/6



METAL RECTIFIERS

represent the most convenient and satisfactory means yet devised for obtaining direct current from an A.C. Supply, and are used in large quantities on account of their reliability, durability and efficient performance by the leading manufacturers.

9 volts 2 amps.



Type A.4. - - 39/6

SUPPLIES of our booklet "The All-Metal Way—1930" are available to all dealers for distribution to their customers. In this 32-page book are given suitable circuits, lists of recommended components, and complete and valuable information and instructions for the calculation, design and construction of every type of mains unit.

THE WESTINGHOUSE BRAKE & SAXBY SIGNAL COMPANY, LTD.
82 York Road, King's Cross, London, N.1

Telephone: North 2415-6-7-8.

Another Amazing Mazda Valve!



The **P. 220A**

PRICE
13'6

CHARACTERISTICS

Filament volts	2.0
" amps	0.2
Max. H.T. volts	150
Amplification factor	6.5
Anode A.C. resistance (ohms)	1850
Mutual A.C. conductance (mA/V)	3.5

Stocks are now available.
Be prepared to meet the
BIG DEMAND

Never before have such fine characteristics been approached by a power valve consuming only 0.2 amps filament current.

With its impedance of only 1850 ohms it can accept a very large input and the remarkably high amplification factor of 6.5 gives a good stage gain. A high output may therefore be maintained together with remarkably fine quality.

The AMAZING MAZDA RADIO VALVES



THE EDISON SWAN ELECTRIC CO., LTD.
Incorporating the Wiring Supplies, Lighting Engineering, Refrigeration and Radio Business of The British Thomson-Houston Co., Ltd.
Radio Division:
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EDISWAN

V. 66

Capitalise S.G. Popularity at

WITH TONEX UNIBOX
SCREENED GRID UNIT

30/-
RETAIL

In the present search for selectivity, S.G. is essential—the "TONEX UNIBOX" at 30/- brings the construction of an S.G. Receiver within the reach of everyone. Many rush to bring their Radio Receivers up to date. The finest thing for them is a "TONEX UNIBOX" Screened-Grid Unit. It just hooks up and transforms the Detector-L.F. set into a really fine receiver. Whether for old sets or new sets "TONEX UNIBOX" is a best seller. The "TONEX" UNIBOX Screened-Grid Unit is to the Screened-grid circuit what the "TONATUNA" is to the Detector-L.F. Circuit. It is a completely shielded coil unit for screened-grid valve receivers. The Coils, which cover both the Long and Short Wave broadcasting bands, are enclosed in a metal case attractively finished in crystalline enamel. Switch provided for change-over. The screened-grid valve is fitted into the case in the correct position for efficient shielding. Plainly marked Terminals are provided for connecting up. The very thing your customers have been waiting for.

Ask for full particulars of all TONEX Productions.
The Tonex Co., Walker Street, Blackpool, Lancs.



THERE'S £8"6"8 ★
FOR YOU

EVERY TIME YOU SELL A DUBILIER SET



Our generous hire purchase terms make this set ridiculously easy to sell—and once you have the order you get your profit immediately. You have no servicing to worry about and once a Dubilier all-electric set is sold it stays sold.

RETAIL PRICE:
 A.C. or D.C. £25

DUBILIER
 ALL ELECTRIC RADIO

Dubilier Condenser Co. (1925) Ltd., Ducon Works, Victoria Road, N. Acton, London, W.3.

INDEMNITY BY IMPEX ELECTRICAL LIMITED

IMPORTANT NOTICE

Messrs. The Mullard Radio Valve Co., Ltd., have recently published notices in the trade press intimating that they intend to take legal proceedings against retailers and others who may infringe certain Letters Patent owned by them, amongst which are Letters Patent No. 283,941.

We are satisfied that the construction of our well-known Dario Valves is not such as to constitute an infringement of Letters Patent No. 283,941 and we desire to give notice to our trade friends that we undertake hereby to indemnify any person who may be sued for infringement of Letters Patent No. 283,941 by the sale of our Dario Valves in respect of any costs and damages which may be awarded against him provided that our Solicitors, Messrs. Philip Conway, Thomas and Co., of 80 Rochester Row, Westminster, London, S.W.1, shall have the conduct of any action brought to recover such damages.

For the purpose of enabling any retailer conveniently to avail himself of the benefit of this indemnity we are depositing with our Bankers in England in the joint names of ourselves and our Solicitors a large sum of money to be utilised for the purpose of making this indemnity effective.

In future, should any claim be made against any customer of ours for infringement of Letters Patent No. 283,941 by the sale of our Dario Valves, the document containing the claim should be sent immediately unanswered to our Solicitors at the above address in order to obtain the benefit of this indemnity and relief from the trouble of conducting legal proceedings.

IMPEX ELECTRICAL LTD., 538, High Road, Leytonstone, E.11
Telephone: Wanstead 2722

ANNOUNCEMENT—

re Hoare & Jagels Limited

Having terminated their association with Rolls - Caydon Sales, Hoare & Jagels Ltd. are now fully established, under the name of Rolls Radio Ltd., at 138, St. Johns St., Clerkenwell, E.C.1. Telephone No. : Clerkenwell 8619.

Their programme for the coming season includes All-Mains Radio-Gramophones, Portable and All-Mains Receivers of the highest quality only. New models can be seen and demonstrated at the new showrooms.

They look forward to seeing their old and new trade friends either at the above address or at Stand No. 35 at Olympia.

ROLLS RADIO LIMITED

Here is the Camco 'Waverly' Cabinet



A cabinet of beauty—finely finished and sturdily built, yet selling at only £5 10 0. This is just one of the many beautiful models to be found in the CAMCO range.

We shall be glad to submit exclusive designs for Portables, Radiograms, Loudspeaker Pedestal Cabinets, etc.



Write now for our new 24 page Catalogue

CARRINGTON MANUFACTURING Co., Ltd.

Showrooms: 24 Hatton Garden, London, E.C.1. Phone: Holborn 8202

Factory: Camco Works, South Croydon.

♡593

**TWO MARVELS
OF MANUFACTURING ENTERPRISE
SUITCASE
PORTABLE FIVE**

TO RETAIL AT

£7 - 19 - 6

Subject to usual Trade Discount.

Complete with B.R.V.M.A. Valves, Batteries and Accumulator. No restriction on sales. Free from Royalties. Fitted with 6-60 Loudspeaker



**THE
SERVIS**

**TABLE MODEL
"THREE"**

Complete with Loudspeaker, Valves, Batteries and Accumulator. Free from Royalties.

£5 - 12 - 6

OR FITTED WITH B.R.V.M.A. VALVES

£5 - 17 - 6

Subject to usual Trade Discounts.

ALL SETS ARE FULLY GUARANTEED.

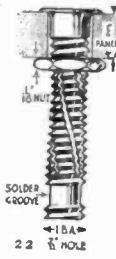
Write for full particulars.



HARRIS WILLIAMS (Mfrs.) LTD.

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Telegrams : Elegasite, Barb, London.

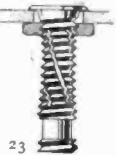
BARBICAN, LONDON, E.C.1
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CLIX

RESILIENT SOCKETS & SOLID PLUGS

These patent sockets are designed so that perfect contact is made when using **SOLID** or any other type of plug.



22. UNINSULATED SOCKET

Pro. Pat.
(Long) For panels up to 1/2 in. **1 1/2d.**
(Short No. 23) For thin panels **1d.**

Retail



24. INSULATED SOCKET

Pro. Pat.
For use with Metal or any type of panel. Red or Black **2d.**

Retail

The Ideal Combination for all Plug and Socket Contacts.

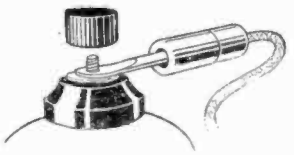


25. SOLID PLUG

Pat.
Engraved or Plain. Red or Black **2d.**

Retail

6 FOR A 1/-



No. 6. Pro. Pat. Regd.

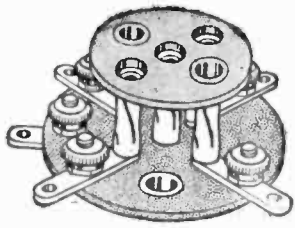
Samples of all these latest CLIX PRODUCTIONS

will be sent Post Free to all bona-fide Radio Traders who send us their business letter heading and a 1/- Postal Order.

No. 6. CLIX ANODE CONNECTOR

For S.G. Valves. A certain and safe push-pull contact. Impossible to short anywhere. Resilient Socket entirely insulated. Solid Pin Tag is permanently fixed to S.G. valve terminal. Black Insulator. Engraved or Plain.

Retail Price 3d.



No. 27 Pro. Pat. Reg. Des.

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One of the most important and revolutionary uses of the Clix Patented Resilient Socket is its application to the Clix Valve Holder. It gives perfect contact with **Solid** or any other type of valve pin. Maximum surface contact with easy insertion and withdrawal of pins. Usual H.F. losses from mouldings and contact springs entirely eliminated. Resilient Sockets air-dielectrically insulated and self-aligning. Impossible to blow valves. Both Screw and Soldering connections provided.

Type "B" for Baseboard Mounting

Price Complete (as illustrated) - **10d.**
Price without Screw Terminals - **8d.**

Our 1930-31 Lists are now ready. Will you add your name to our records?

LECTRO LINX, LTD., 254 Vauxhall Bridge Road, London, S.W.1

THE POPULAR SERIES OF WIRELESS RECEIVERS MAY NOW BE SOLD ON DEFERRED TERMS



We are open to appoint accredited dealers in every district for the sale of the "POPULAR" Series of sets on most favourable deferred terms.

"POPULAR" TRANSOL IV - 12 gns. cash price
22/6 deposit, 22/6 per month.

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"POPULAR" CABINET THREE - £5-5-6 cash price
9/6 deposit, 9/6 per month.

"POPULAR" REGIONAL THREE - 4 gns. cash price
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FOR FULL PARTICULARS WRITE :

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"POPULAR" TRANSOL IV

RADIO GRAMOPHONE CABINETS

RADIO GRAMOPHONE CABINETS

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**PORTABLE
CABINETS
POLISHED OR
LEATHER COVERED**

**SPEAKER
CABINETS
FOR CONE OR
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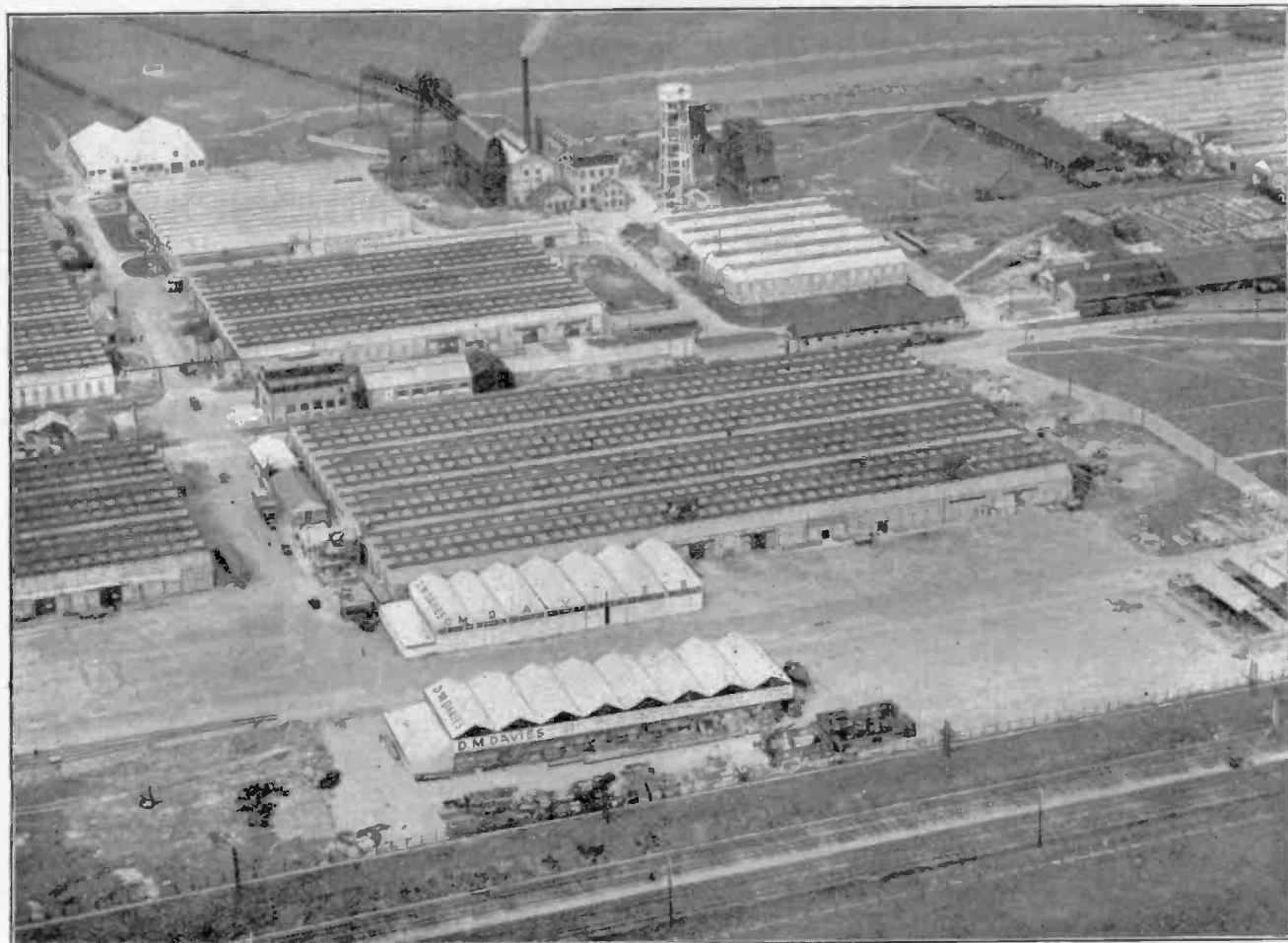
*Let the people who control the largest
Factory that exists for this class of
work quote you for the manufacture of
this most important side of your busi-
ness; your customers will certainly
consider good Cabinet work, equally
with your electrical and tonal results.*

*As we have secured for this year
the orders and contracts for the
largest and most influential Firms
in the trade, we suggest, respect-
fully, that what is good enough for
them is good enough for the whole
industry.*

GRAMOPHONE CABINETS

**D.M.D.
WOODWORK LTD.**

WIRELESS CABINETS



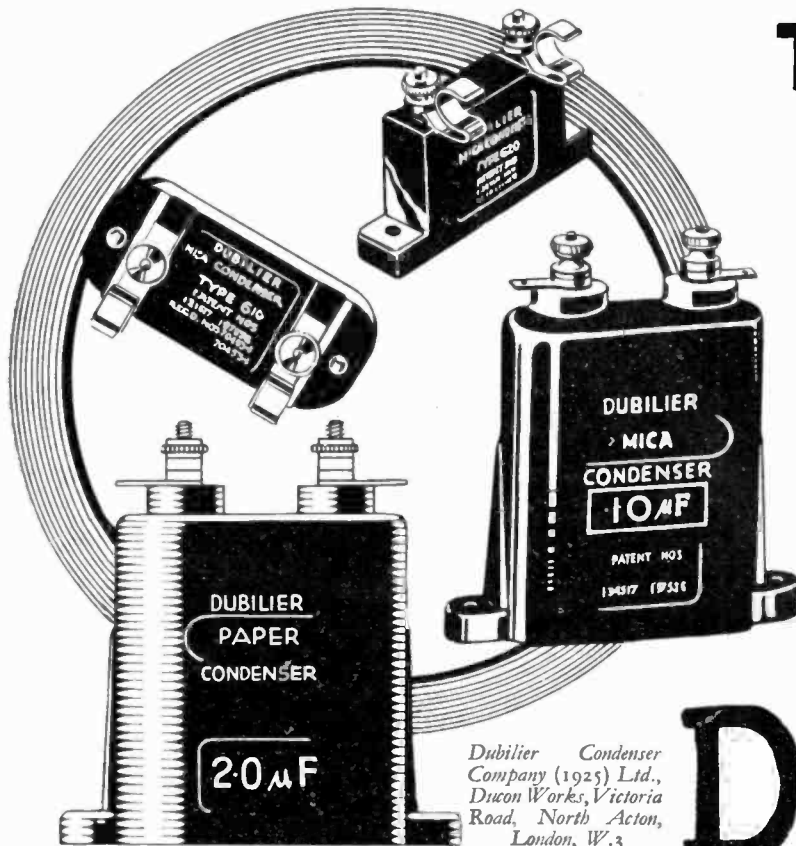
D. M. DAVIES WOODWORK LTD.

TRADING ESTATE, SLOUGH.

'PHONE: SLOUGH 316.

ACRES OF FACTORIES.

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Dubilier Condenser Company (1925) Ltd.,
 Dixon Works, Victoria Road, North Acton, London, W.3

THAT'S THE POINT

Cheap foreign condensers, manufactured by here - today - and - gone-tomorrow firms will never pave your way to bigger business—neither will they earn for you a reputation as a reliable dealer. Sell condensers made by Dubilier—they're thoroughly reliable and—show you a generous profit—that's the point.

DUBILIER CONDENSERS

Efescaphone REGIONAL PORTABLE 3 VALVE

This set has been specially designed for receiving the dual programmes from the Brookman's Park Station. It will separate the Regional from the National wavelength clear of interference, as close as one mile, and gives good loud-speaker strength within a radius of approximately 40 miles.

It serves a large population, and offers, therefore, a rich potential market to the enterprising dealer.

Its price—£12 15s. complete—is within the reach of households of quite modest means, while H.P. facilities are available, if required.

Only three Valves are employed, and Battery consumption and cost of upkeep generally is therefore much more economical than the average Portable Set.

The Efescaphone Regional Three is entirely self-contained and requires neither an Indoor nor Outdoor Aerial.

Price £12.15.0
 H.P. terms £1 down and 12 monthly payments of £1.0.7



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 83-93, FARRINGTON ROAD, LONDON, E.C. 1



Highest in public esteem

On the ground—in the air—
on the river—in the home,
the McMichael Super Range
Portable Four proves worthy
of its wide popularity. The
paramount portable — far
above all others in the re-
ception and wide range of
programmes given.

READ THIS UNSOLICITED TESTIMONIAL

Ruyne's Park,
London, S.W.

Gentlemen,

With reference to the "McMichael" Super Range Portable Four Receiver, I purchased a week ago, the results I have obtained are to me and many of my friends, positively amazing. I never realised how pleasant wireless could be until I purchased this Set.

The reception is vastly different now to that which I have been used to hearing, and one might easily imagine the orchestra or speaker in one's own room, a few yards away only.

Up to the present time I have obtained twenty-five different stations, all at good loudspeaker strength, as easy as falling off a log.

One evening soon I intend to really search the ether and see how many stations I can get. I think it will be well over forty judging from the results obtained so far.

If you wish to use this letter for publication please do so, and wishing you the success you deserve.

I am,

Yours faithfully,

A. E. J.

Screened Grid Amplification.
Single Dial Control.
Easy Control of Volume.
Lowest Possible Upkeep Cost.

Superlative Tonal Quality.
Wide Range. High Selectivity.
Fitted in handsome Suitcase with
patent locking clips.

The McMICHAEL 1930 SUPER RANGE PORTABLE FOUR

Owing to the high degree of selectivity in this, and our other Screened Grid Portable Receivers, we are able to guarantee complete selectivity between all main B.B.C. Stations under the new scheme of wavelengths, as proved by an actual test under the twin aeriols at Brookman's Park, when both programmes were received separately without interference, and in addition a number of other British and foreign stations.

This test was made on a standard "Super Range Four" receiver, under an independent Press observer, and was repeated at half-mile intervals with similar results.

Sell more McMICHAEL Receivers by means of our special deferred payments on the Hire Purchase System. If you are not already stocking and demonstrating this popular Portable, write us or your Factors for terms, Showcards and attractive leaflets. The Receiver will prove a revelation to you.



L.M^cMICHAEL LTD

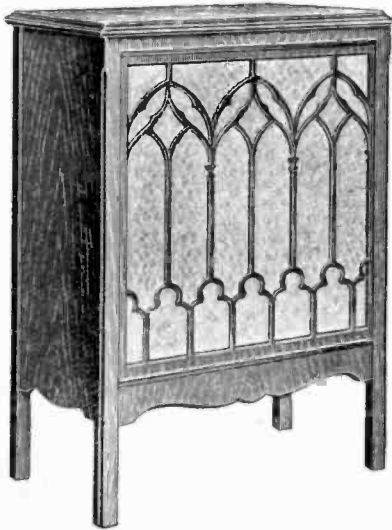
Manufacturers of Wireless and Scientific Apparatus
WEXHAM ROAD, SLOUGH, BUCKS.

Telephone: Slough 441-442. Telegrams: Radiether, Slough.
London Showrooms: 179 STRAND, W.C.2 (Tel.: Holborn 2466)

RETAIL
PRICE 22 GNS.

(Including all Equipment
and Royalties)

A NEW MOVING COIL PEDESTAL CABINET THE "KABILOK" M.C.5.



This Kabilok Cabinet has been specially designed by us in conjunction with the Edison Swan Electric Co., to accommodate their new B.T.H. R.K. Permanent Magnet Speaker. It has been tested and officially approved and is being specified by Messrs. Edison Swan.

The M.C.5. Cabinet is designed to give perfect reproduction and allow great volume to be obtained without box resonance. It is therefore also suitable for the B.T.H. Senior R.K. and other models.

A sturdy full-sized baffle board is behind the grille, and bolts are provided for fixing the speaker.

Overall size: 3' 3" high 2' wide 1' 3" deep

Retail Prices:

M.C. 5/1. For B.T.H.,
R.K. Permanent Mag-
net - - - £5 17 6

M.C. 5/2. For B.T.H.
R.K. Models with special
baffle boards or cradle
as required - £6 7 6

BOTH IN OAK.

KABILOK CABINETS

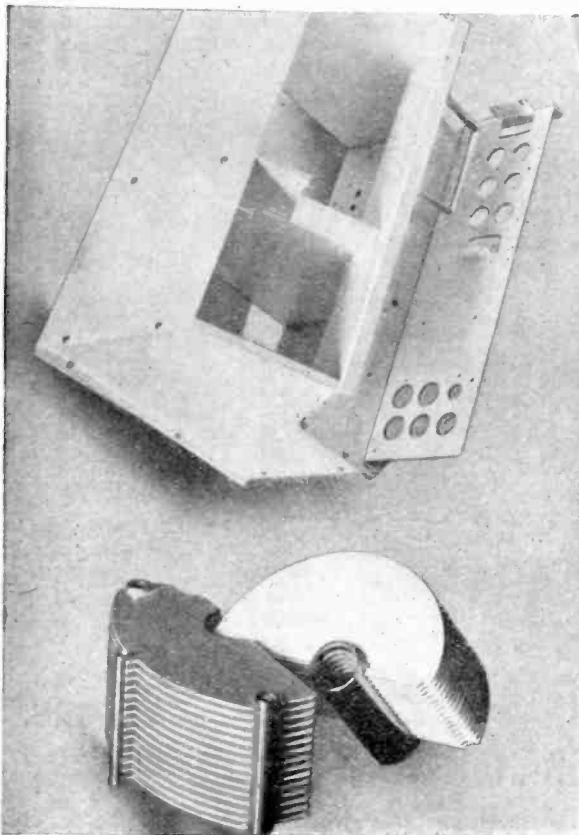
NEW LIST READY
SHORTLY

giving details of new
lines and *reduced prices*
on many existing lines.

SEND FOR YOUR
COPY NOW

W. & T. LOCK LTD, ST. PETER'S WORKS, BATH

VISIT OUR LONDON SHOWROOMS: 11 RED LION SQUARE, W.C.1.



A Better Job or a cheaper one

Sell efficiency, economy and appearance. Aluminium is unrivalled for valve screens, and boxes, cone chassis and other components. It is light, rustless and does not split.

Easier, too, to sell a condenser of aluminium vanes with its low price, quicker movement, and durability.

Pye Aluminium chassis and Pye Aluminium variable condenser. The latter is standard in Pye Portable and All-Electric Receivers. Photo. by courtesy of Pye Radio Ltd., Cambridge and Paris House, Oxford Circus, W.1.

Aluminium

THE BRITISH ALUMINIUM CO. LTD.
ALUMINIUM PRODUCERS. ADELAIDE HOUSE,
KING WILLIAM STREET, LONDON, E.C.4

LONDON WAREHOUSE: 34-38 Banner Street, Golden Lane, E.C.1.

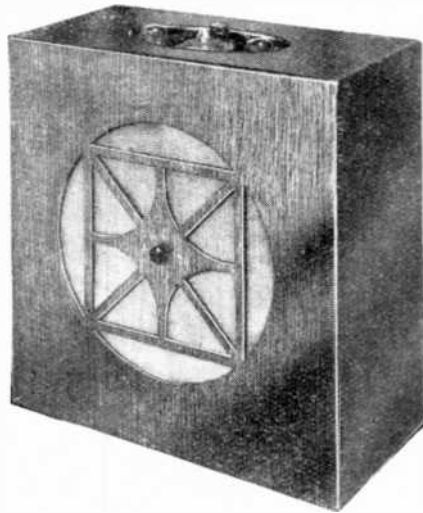
MANCHESTER: 274 Deansgate.

BIRMINGHAM: 21 Barwick St.

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"This time—

*Sell the
wonder set
of the
year—*



*at a more
popular
price!*

'CENTURY' 5-VALVE

Retail Price - £9. 9. 0

Inclusive of valves, all batteries, in Polished Oak Cabinet. A thoroughly tested and efficient 5-valve circuit that has a large constant range with excellent amplification and reproduction. Very selective and simple to operate. Compares favourably with sets costing twice as much. H.T. Consumption 8 to 9 milliamps.

DELIVERIES IN TWO WEEKS !

MAKE A CONTRACT NOW.

AND THE OTHER "PEGASUS" BEST SELLER !

THE "PEGASUS STAR"
£15. 15. 0

A high class 5-valve portable that is fitted with only first class components. Employs

an ultra selective circuit giving a wide range of stations. Amplification and reproduction is of the first order.

DEFERRED TERMS ARE AVAILABLE.

**"PEGASUS" Ltd.,
10 Victoria St., Chapel Allerton,**

Telephone :
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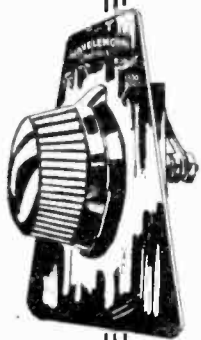
Telegrams : "Pegasus 41310
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★ First Announcement of
a NEW COMPONENT—
an ALL-WAVE TUNER
for Baseboard mounting.



The Four-way
Switch

RETAIL PRICE
QUADRICOIL
AND
PANEL CONTROL
SWITCH
COMPLETE
17/6



**STURDY!
MECHANICALLY
SOUND!**

DESIGNED to meet modern requirements for an EFFICIENT All-Wave Tuner, the SAXON QUADRICOIL will particularly appeal to your customers.

It covers completely the 200-2,000 metre waveband. Provision is made for condenser - controlled reaction.

There are NO MOVING PARTS in the QUADRICOIL—no risk of faults—nothing to wear and cause breakages of wiring.

It performs its work smoothly—silently—effectively over the whole waveband—the All-Wave Tuner of To-morrow.

Write now to the Saxon Radio Company, Blackpool, Lancashire, for full particulars and circuit diagrams.

THE MARK OF MERIT
**SAXON
RADIO**
BLACKPOOL LANC'S

Phone:
Blackpool 1894.

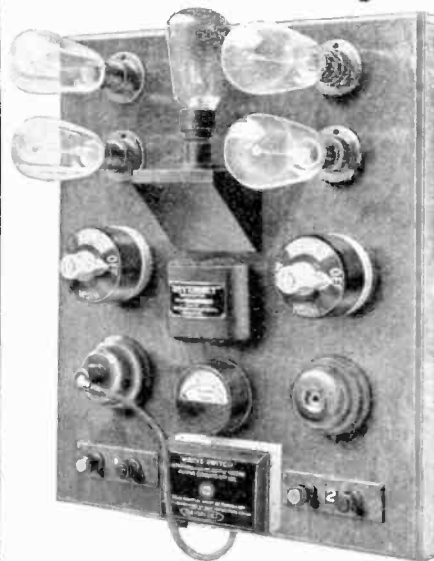
PHILIPS

RECTIFYING VALVES



PHILIPS
RECTIFYING
VALVE
TYPE 1701.
MAX. OUTPUT
300 M/AMPS.
340 VOLTS.

Arrangements have now been made with Philips Lamps Limited to fix their new type 1701 Rectifying Valve in this Charger. This valve has been specially developed for this class of work, and further, has been manufactured as an exact equivalent of the valve previously fitted. It renders the operation of the Charger efficient and absolutely dependable. Stocks are available for renewals in existing Chargers, whilst, in future, new plants of this type will be fitted with these valves as part of their standard equipments.



Davenset
High Tension
Accumulator
Charger
Type H.T. 2.

Max. D.C.
Output 300
m.a. at 200
volts.

Price:
£8 8s. 0d.
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This Charger
Manufactured
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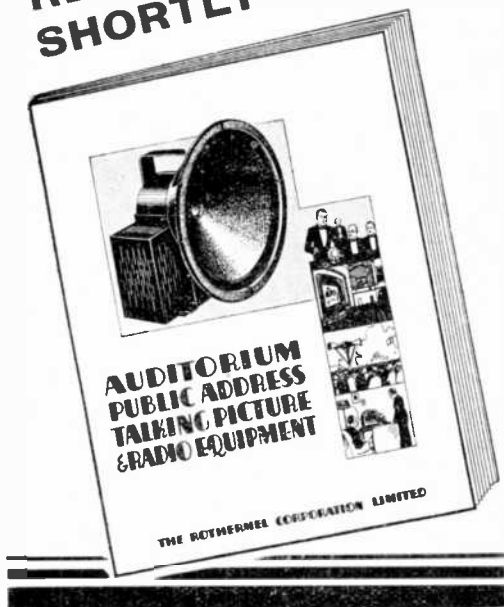
Partridge,
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DAVENSET

CHARGERS

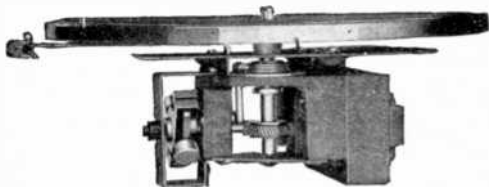
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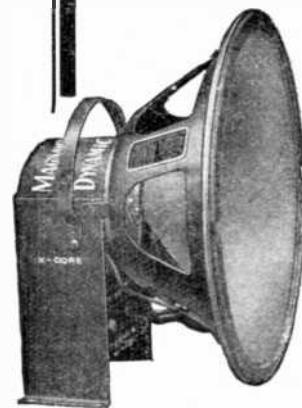
should be sure to secure a copy of our new and enlarged 1931 Catalogue and Handbook of Radio, Auditorium and Talking Picture Equipment.

Magnavox Dynamic Speakers—Centralab Volume Controls—Centralab Power Rheostats—Electrad Variable Resistances—Blue Flyer Induction Motors—Green Flyer Induction Motors—Webster Pick-ups—Janette Rotary Converters—Loftin White Amplifiers—Thordarson Transformers—Frost Rheostats and Volume Controls—Mershon Electrolytic Condensers—Power Amplifiers, Sound Heads and Public Address Equipment—Etc., etc.



Green Flyer Induction Motor.

Just fill in the coupon below and mail to us by return. The booklet will be sent you immediately it is off the Press.



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Please send me as soon as published a copy of your new 1931 Handbook of Radio, Auditorium, Public Address and Talking Picture Equipment.

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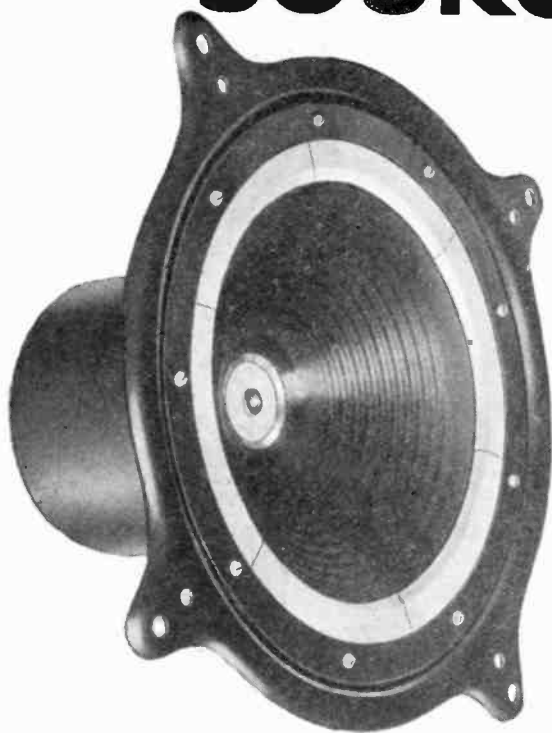
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NAME

ADDRESS

AND NOW A NEW SOURCE OF PROFIT



Ediswan now add to their range of super loud speakers the new R.K. with a permanent magnet system—just the thing for districts where there is no electric supply.

Owing to the unique hire purchase facilities (full particulars supplied on request) which are available, it comes within the means of those customers who want the best but who cannot afford to pay cash. It will pay you to give your attention to this new source of profit.

THE PERMANENT MAGNET



REPRODUCERS

PRICE £6 - 15 - 0

Speech Transformer 15/- extra



THE EDISON SWAN ELECTRIC CO., LTD.
Incorporating the Wiring Supplies, Lighting Engineering, Refrigeration
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Radio Division:
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W.88

NEW LINES BY **FERRANTI**

MAGNO-DYNAMIC SPEAKER

The very latest development in Moving Coil Speakers.

The field is produced by a powerful permanent magnet of special design, and is capable of a performance equal to the best Electro-Dynamic Speakers.

TWO NEW A.C. SETS

will be available. They are of the two-valve type in leather-covered metal cabinets, in pleasing colours and of very attractive appearance. Built to the FERRANTI standard of quality, they are capable of excellent reproduction, being particularly suitable for the Regional scheme. They work well in conjunction with the FERRANTI Dynamic Speaker.

Price **£16 . 0 . 0** each

These sets are expected to prove extremely popular.

See the Ferranti range before stocking for the season. Put your money into products which are going to sell and satisfy—

FERRANTI Products

FERRANTI LTD.

HOLLINWOOD

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**20/-
EACH**

Mullard Screened
Grid Valves:

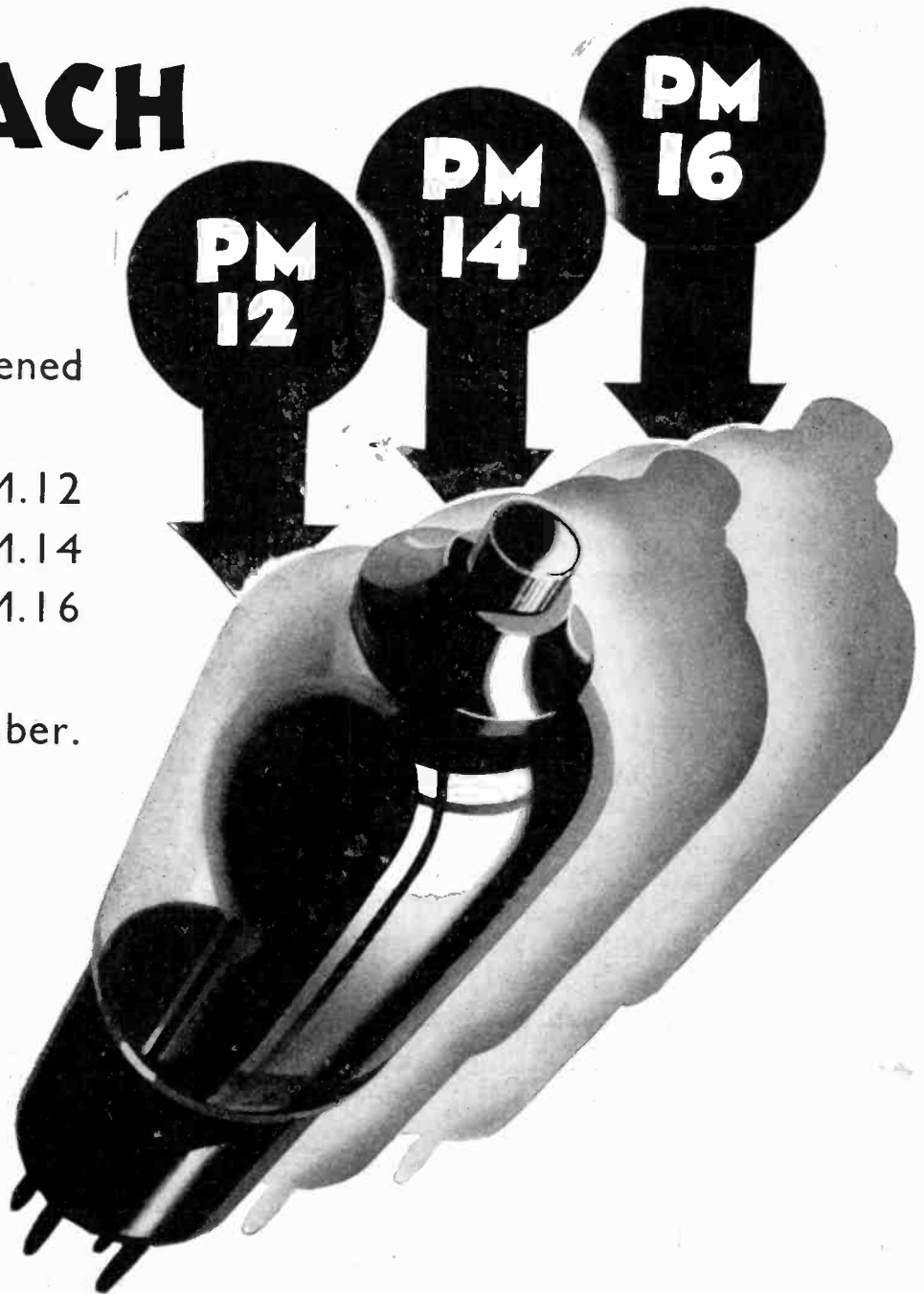
2 volt P.M.12

4 volt P.M.14

6 volt P.M.16

Easy sellers—

Easy to remember.



Mullard
THE · MASTER · VALVE

Adv. The Mullard Wireless Service Co., Ltd., Mullard House, Charing Cross Road, London, W.C.2.

Arks.

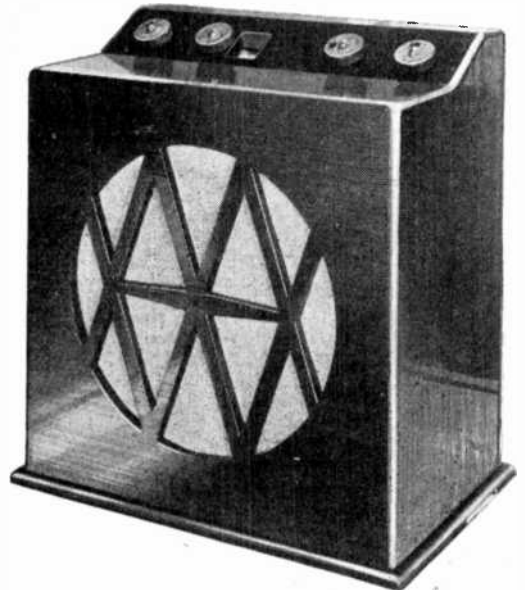
WHO'S MURPHY?

THE MURPHY RADIO PORTABLE.

“THE disposition of the controls, for instance, with a projecting ledge upon which to rest the hands when tuning is at once evidence of *careful attention to detail on the part of the designers.*”

“In the space of half-an-hour after dark, twenty-four stations at programme strength were tuned in on the 200-600 metre band. This is a conservative estimate as several strong carrier waves were passed over which did not happen to be modulated at the time.” *(Extract from “Wireless World” article, August 6th.)*

The above tells you something about Murphy Radio.



THE NEW MURPHY RADIO PORTABLE.

Frank Murphy

B.Sc., A.M.I.E.E.,
A.I. Rad. E.,
Chartered Elect. Engineer.

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WELWYN GARDEN CITY, HERTS

MAKING WIRELESS SIMPLE **M**

4-VALVE SCREENED GRID RECEIVER

SINGLE TUNING CONTROL.—
Completely Ganged Circuits CALIBRATED IN WAVELENGTHS.
Fitted in beautiful Walnut Cabinet; weight 32 lbs.
No aerial or earth required.
B.R.V.M.A. Valves.
2-volt 23 A.H. unspillable Accumulator, mounted on acid-proof rack.
108-volt H.T. Battery 12m a rating.
Average H.T. consumption 8-9m/a.
Gramophone Jack.
External Loudspeaker Jack.
External aerial and earth sockets.
Excellent loudspeaker reproduction, giving very enjoyable music and particularly clear speech.
Range and selectivity equal to, if not better than, any other portable set on the market.

PRICE 17 GUINEAS

including valves, batteries, turntable and Royalties.

M.C. 121.

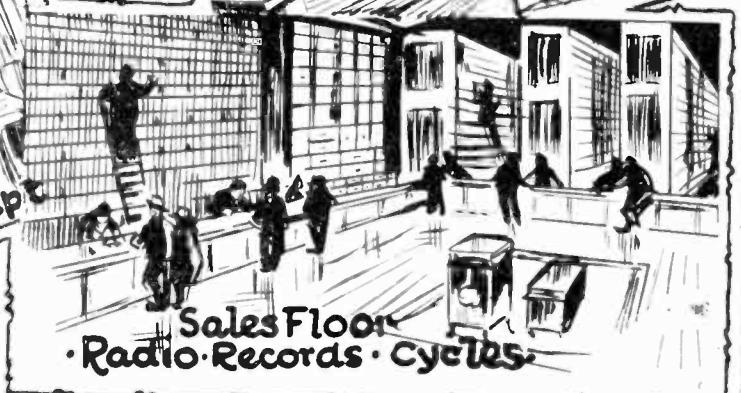
C 3

C O U P O N
Murphy Radio, Ltd., Welwyn Garden City, Herts
MURPHY RADIO PORTABLE
Please send Particulars and Trade Terms
Please send a Representative

NAME
ADDRESS

Cross out line which does not apply. W.T. Aug. 16th

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(JOSEPH RICHARDSON)

'Grams : "TRUTONE."

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**CYCLE, GRAMOPHONE & RADIO FACTORS
GET YOUR SUPPLIES FROM RICHARDSONS
- ALL ON ONE ACCOUNT - FROM STOCK**

NEW MODELS

BIG PROFITS QUICK SELLERS



Model 49



Model 48



Model 77M



Model 259



Model 44A



Model 72

Feature these for the coming season. Attractive Showcards, Window Streamers and Literature. Free on request. Note these six models from own 1930-31 Range.

MODEL 49. Veneered Mahogany Cabinet with Queen Anne legs. Fitted Garrard double spring motor. With new type non-set, auto-stop, and unit-plate. Full fret front with record space inside. Price £9 9s.

MODEL 48. Oak Veneered Cabinet of attractive design. Fitted Garrard double spring motor. New type non-set, auto-stop and unit-plate. Full fret front with record space inside. Price £7 12s.6d. Retail.

MODEL 77M. Veneered Mahogany Cabinet of ultra modern design. Fitted Garrard double spring motor, new type non-set, auto-stop, and unit-plate. Full fret front with record space behind. £13 13s., Walnut £14 10s.

MODEL 259. Veneered Oak Cabinet with powerful Garrard worm-drive motor. Price £5 12s. 6d. Retail.

MODEL 44A. Veneered Oak Cabinet of distinctive design. With powerful Garrard worm-drive motor. Full fret front. Price £5 17s. 6d. Retail, in Mahogany £6 15s.

MODEL 72. Beautiful Oak Cabinet of Jacobean design. Garrard double-spring motor. New type non-set, auto-stop and unit-plate. Full fret front with space for records inside. Price £12 Retail.

SUBJECT TO TRADE DISCOUNTS.

OUR FULL RANGE CAN
BE DELIVERED NOW
— SEND AT ONCE —

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RICHARDSONS

(JOSEPH RICHARDSON)
"Grams : "TRUTONE.""

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24 PARK LANE,

Bank 5443-4.

CYCLE, GRAMOPHONE & RADIO FACTORS
GET YOUR SUPPLIES FROM RICHARDSONS
— ALL ON ONE ACCOUNT — FROM STOCK

Trade News

ANOTHER P.A. NOVELTY. An Interesting "Star" Development.

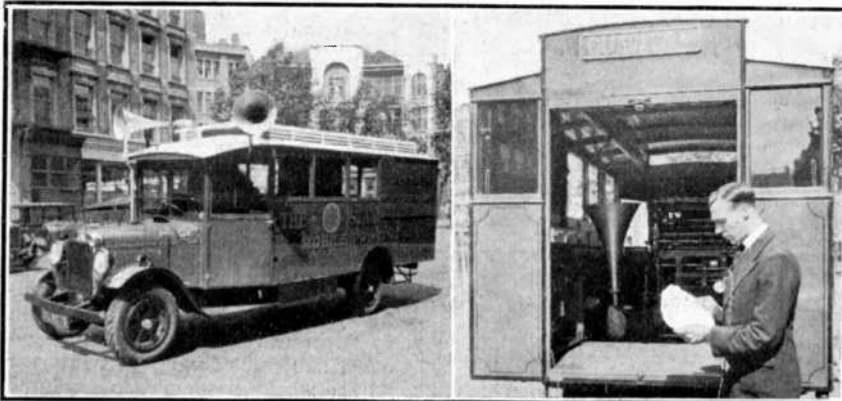
A FAMILIAR sight at many of the big events of national interest, such as the Cup Final, the Derby, and similar functions, is the "Stop Press" motor van operated by the *Star*, the London evening newspaper. Not only does this van serve a useful purpose for rushing through red-hot news, but it also constitutes an excellent advertising medium for the newspaper itself.

Naturally, the vehicle would only be seen by those in its immediate vicinity unless some method of drawing attention to its presence were adopted. Once again the ubiquitous public address system proves its usefulness, for mounted on the top of the *Star* van are two Marconi-phone P.A. speakers. Inside is a special amplifier of the same make. Gramophone music and microphone announcements are broadcast as desired, at the various events at which the van is present.

The amplifier, of a new type, utilises one of the big DA60 output valves in the last stage. Power is supplied through a rotary transformer running off 12 V accumulators specially built into the van for the purpose.

Under such conditions that obtain in the van when the "crew" are dealing with the latest news, it is essential that he who undertakes the announcing should be permitted considerable freedom of movement, for he may be carrying out several jobs at once! Therefore one of the new breast type microphones, beloved of parachutist broadcasters, is called into service. It is suspended round the announcer's neck, and rests on his chest against a pad of sponge rubber.

Thus are the public regaled with music while awaiting the delivery of newspapers, literally "hot off the press," for the little printing machine in the automobile can work at a high rate of speed. It prints in the stop press column the latest news, received either by phone from the office, or actually "on the spot," and is driven by a Petter 2-stroke engine.



Here are two views of the "Star" mobile printing van, showing the P.A. speakers carried. On the right is the announcer, with a breast-type microphone.

HOW THEY KEEP SMILING.

Seeing the Funny Side of Things—Even a Burglary.

THAT unflinching humorist of the radio industry, Mr. R. M. Ellis, joint-managing director of Pye Radio, has once again come forward at the appropriate moment and shown that his ready wit is equal to all demands made upon it. His latest remarks are in connection with our "Personalia" note last week in which it was mentioned that Mr. E. U. Redway, managing director of Southern Factors, Ltd., had been suffering from the attention of Bill Sykes to the extent of having lost jewellery and a sum of money—although a McMichael set was left untouched.

The cream of the joke, however, is that we remarked on, the coincidence that Mr. Ellis himself had recently suffered similar depredations and lost a suitcase full of clothes and two Pye portables, and furthermore, that Mr. Ellis recently spent a week-end with Mr. Redway, since they are personal friends.

Now, in an amusing letter to us, Mr. Ellis delivers himself of the following remarks:—

"It is very difficult to engage in the radio industry and keep a reputation for ordinary honesty.

"The paragraph in your current issue drawing attention to the peculiar coincidence of the burglaries at Mr. Redway's house and mine almost demands the following personal statements:—

"1. That my week-end visit to Mr. Redway was a friendly one and in the daylight.

"2. That I do not know Mr. Redway's burglars nor have I supplied them with information obtained during my visit.

"3. That the mere fact of the McMichael set being ignored is no proof of my interest in the proceedings.

"4. That I do not think that Mr. Redway had my house burgled in retaliation, nor in the hope of getting his belongings back.

"5. That in my opinion Mr. Redway's well-known interest in Pye receivers had nothing to do with the disappearance of the two Pye portables from my house.

"6. That the fact that my burglars did not take anything to drink is no evidence against Mr. Redway. Anyway, my suits won't fit him!

"7. That if Mr. Redway will undertake not to send his burglars to my house in future, I will undertake to keep mine away from Eastbourne. If this arrangement is not kept to the satisfaction of both parties, both burglars shall be placed forthwith on the stop-list.

"8. That the alleged opinion of Mr. Clapham and Mr. Dwyer on the burglaries has been obtained without full and sufficient knowledge of the facts."

Well, well. And after that we suppose peace once more reigns at Regent's Park and on the Eastbourne front.

* * *

Since the word "coincidence" is being used so freely, however, we are going to risk applying it to the fact that the same post which brought to us Mr. Ellis's letter also included a characteristic note from Mr. C. G. ("Gus") Allen, the popular McMichael London sales manager, who is at present enjoying a holiday on the Continent.

"I notice," he says, "that our friends Ellis and Redway have had burglars, and that for some unaccountable reason they overlooked one of our receivers. This obviously points to the fact that they were 'Gentlemen Raffles,' and would not rob the Redway home of such a glorious instrument of entertainment. In one way it was a pity, because it would have been another portable shifted by our good friends Southern Factors. Mr. Redway, no doubt, is insured, so he has literally lost a sale.

"Personally, I cannot bear to lose a sale, and when burglars recently entered my house they also overlooked a McMichael 'Screened Three.' The lost opportunity of moving another of our receivers was very annoying, but as I was not at home to demonstrate, I quite understand how the burglars missed it. Even so, however, I had my own back by persuading the detective who came to investigate to buy the 'Screened Three.' This selling tip is now offered to Mr. Redway for his consideration!"

All of which goes to show that there's nothing like a spot of adversity to keep one's sense of humour in form.

Canvey Shop Hours Extended.

We understand that the Essex County Council has issued an order under the Shops Act extending the closing hours for traders at Canvey Island until 10 p.m. on Saturdays, and to 9 p.m. on other days of the week, until the end of September.

Lead Poisoning in Accumulator Works. Accident Prevention in the Wireless Industry.

THE danger of lead poisoning among employees in electric accumulator works again receives prominence in the annual report of the Chief Inspector of Factories and Workshops, just published for the year 1929. Although the number of reported cases shows the substantial decrease from 58 in 1927 to 23 in 1929, accumulator manufacturing continues to provide more instances of lead poisoning than any other industry, excluding cases occurring among painters of buildings.

Of the cases reported during 1929, two had fatal results, the men concerned being aged 64 and 59 respectively.

Dealing with the methods by which the incidence of lead poisoning can be reduced, the senior medical inspector says that strict regulations are of little avail unless there is close supervision in the works to see that they are properly observed.

This, it is added, is often neglected in the smaller works, which are especially affected by seasonal fluctuations, and one work was found to be contravening almost every regulation, although one of their workers was at the time in hospital with lead poisoning.

Conditions in the larger factories are stated to be generally satisfactory. The periodical transference of workers to non-lead operations, and the adoption of weekly medical inspections, have given good results. One of the largest accumulator works in this country appointed a whole-time Medical Officer two years ago, and the success of this step can be gauged from the fact that no case of lead poisoning has since been notified.

With regard to the wireless industry itself, it is unfortunate that the report does not contain any readily-available statistics.

The relevant figures are included under such headings as "Scientific Instruments," "Musical Instruments," and "Cabinet-making." In view of the size of the industry, and the value of the figures collected by the Factory Department, this omission should be possible of remedy in future years. There is no doubt that if the figures were given separately they would be of considerable interest and practical assistance.

An interesting section is devoted to the Home Office Industrial Museum. The museum, which is essentially practical in its suggestions for aiding efficiency in every branch of industry, is too little known to the average manufacturer. The following extract from the report gives an idea of its scope:

"A manager from a wireless instrument firm came to see power press guards. He said he would like his foreman to see them, and on the following Saturday afternoon the young man arrived with his wife. After seeing the guards they stayed all the afternoon seeing all the exhibits and discussing various safety and welfare matters. The following week the manager returned and brought with him a maker of power press guards, and during the visit gave him instructions to fit Udal guards on to most of his presses, and automatic feeds on to others. He said, with some amusement, that his foreman had given him a long lecture on safety and welfare measures after his visit to the museum. He also asked to see a particular type of seat mentioned by the foreman as being suitable for their women workers."

Crossing the Line with a "Portadyne!"

A letter recently received by Whittingham, Smith & Co., manufacturers of the well-known "Portadyne" receivers, from Lt.-Comdr. D. Edwards, R.N.R., of the S.S. "Moldavia," is rather interesting.

While voyaging from Australia, Lt.-Comdr. Edwards received several Australian broadcasting stations on a "Portadyne" S.G.4 portable at full loud-speaker strength up to a distance of nearly 1,000 miles. Sydney, in fact, was received when the ship was 1,440 miles away. Several Australian people, the letter states, were very favourably impressed with the performance of the set. At Marseilles the Daventry long wave station was heard at excellent strength, as were the Brookman's Park stations when the ship was in the Bay of Biscay.

Owing to the screening of the steel cabin an outside aerial of Electron wire, 16 feet long, was erected. The Hellesen battery stood up well to the tropical heat, when the ship was crossing the Line, and lost but 8 V in two months.

Dealer's P.A. Apparatus.

A large area in the North-East of England is covered by the P.A. activities of E. & H. Glover, the Darlington radio retailers, who run an extensive public address department in connection with their business.

The actual amplifiers used were constructed by the firm, while a Western Electric microphone is employed. Thus Messrs. Glover have the satisfaction of knowing that their success is entirely due to the efficient design of their own amplifiers. In addition to installing P.A. apparatus at numerous galas in the surrounding district, they number among their clients Imperial Chemical Industries, Ltd., and the Welfare Department of the Ministry of Mines—to name but two distinguished "customers" of the firm.

An excellent example of the use that can be made of showcards and other sales aids. This display was arranged by Messrs. Wroe & Briggs, of Bude, at the Bude Agricultural Show, and is all the more noteworthy as it was staged in the open.



U.S. Magnates Visit Insulator Factory.

The American President and Vice-President of the Ohio Brass Co., when visiting the works of Taylor, Tunnicliff & Co., manufacturers of electrical porcelain, recently were interested in seeing the workshop at Hanley, where some of the first high tension insulators to be made in England were thrown. Mr. C. K. King (President), chatted with workpeople who were descendants of the original throwers.

Taylor, Tunnicliff & Co., in planning their new factory at Stone, have made full use of their association with the Ohio Brass Co., by a candid reciprocal exchange of ideas, which has been of the utmost value to both.

Flash!

Very seldom does it happen that a radio aerial is actually struck by lightning, and therefore the experience of Mr. P. K. Hoyle, Slaithwaite, Yorks., a dealer, is somewhat unusual.

During a recent thunderstorm the wire halyard between the top of the aerial pole in Mr. Hoyle's back garden and the aerial insulators was severed, two insulators were badly cracked, and a third disappeared entirely! The earthing switch was welded into a mass of metal, and the choke output loud-speaker extension wire running from the set near the switch was broken. The receiver itself functioned perfectly afterwards, however.

Mr. Hoyle was, without doubt, fortunate in sustaining such slight loss, but his escape is probably due to the possession of a good earth connection.

A New Aircraft Set.

Increasing use is being made nowadays of radio equipment in civil aircraft, and one of the latest aeroplane sets to be approved by the Air Ministry is the Marconi type AD6M, the latest addition to the AD6 series of aircraft sets used in many parts of the world.

The AD6M, for C.W. or telephony, utilises a 150 W transmitter, and a 3-valve S.G. receiver. Working on the usual aircraft wavelengths, it can be remotely controlled by the pilot when a wireless operator is not carried.

No "Noise" for Chatham.

Chatham Town Council, we learn, has instructed the Town Clerk to take all preliminary steps for the passing of a by-law to deal with the "nuisance" of loud-speakers and gramophones.

BELFAST TO REPLACE D.C. MAINS UNITS.

Commissioners' Concessions.

The recent discussion between the Electricity Supply Department of the Belfast Corporation, and consumers who were using D.C. mains units for wireless sets, has had a satisfactory outcome. The following communication was recently received from Mr. Frank H. Whysall, M.I.E.E., by a listener using a D.C. H.T. unit, and who was affected by the change over to A.C. supply in Belfast.

"Relative to your application concerning wireless apparatus, I have now made arrangements with the Electricity Commissioners that we can now legally make provision to alter or provide equipment for alternating current. . . ."

The use of a rectifier passing 30 mA was suggested, but on the consumer's replying that he preferred an "Ekco" H.T. unit without valves, this request was agreed to, on condition that the D.C. unit was given up in exchange.

Thus ends a controversy that was debated in several newspapers. Ultimately a request was made by consumers for arbitration to the Ministry of Commerce. The Electricity Department of the Belfast Corporation has generously obviated

THE ULSTER SHOW.

All Stands Taken.

Preparations proceed apace for the Ulster Wireless Exhibition, to be held in the Ulster Hall, Belfast, next October. Members of the Committee of the Ulster Wireless Traders' Association recently paid a visit to London in order to point out to manufacturers the many advantages of taking space at the Show. The result has been that all of the twenty-eight available stands have been booked, many leading manufacturers having given their support. There is now every prospect of a record Exhibition.

Many innovations have been introduced this year, one of the most noteworthy of which is the organisation of a procession of decorated cars which, by its passage through the main thoroughfares of the city, will draw attention to the Show.

A full account of the last meeting of the U.W.T.A., at which several questions relating to the organisation of the Exhibition were discussed, appears on another page.

The Manchester Show Contest.

Once again this year a radio construction competition is to be run by the Manchester *Evening Chronicle* in connection with the forthcoming Manchester Radio Exhibition. There are five classes,

RELAY SERVICES IN YORKS.

The Sowerby Urban Council, it is learned, has granted an application by Mr. G. M. Whiteley to establish a wireless relay exchange for the Hollins Lane district, subject to his making the usual requests when taking wires across streets.

* * *

We hear that the Highways Special Sub-committee of the Doncaster Town Council reports having considered applications by Radio By-Wire, Ltd., of Hull, the Midland Wireless Relay Service, of Derby, and Mr. J. L. Hobson, of Hunstanton, for permission to establish wireless exchanges in the town, together with letters from a number of local authorities in whose districts such exchanges have been established. They recommended that the applications be not granted at present. This course has been adopted by the Corporation.

Capitalising a National Event.

Crowds of visitors to Northern Ireland's popular seacoast resort, Bangor, Co. Down, were attracted by window notices at Mr. McCartney's wireless and gramophone stores in Main Street, inviting passers-by to hear the broadcast of Miss Amy Johnson's arrival at Croydon—following newspaper announcements of the invitation.

The well-appointed demonstration rooms were full of visitors waiting for the transmission to start. The receiver was a Philips type 2524, with a G.E.C. speaker.

PERSONALIA

WEDDING BELLS!

CONGRATULATIONS (and presents, if any), are due to Mr. F. J. A. Hall, the well-known North London trader, who enters the select company of Benedicts on Thursday (early closing day!), August 21st.

Incidentally, Mr. Hall has recently sold his business at 91, Fore Street, Edmonton, and is now part-proprietor and manager of that excellent establishment, Sports & Radio Stores, at Friern Barnet. We wish him good luck in both his new ventures.

A MURPHY TECHNICAL APPOINTMENT.

WE have been asked to announce that Mr. W. B. Bartley, who was educated at Winchester and New College, Oxford, and at the latter place obtained his B.A. in the Honours' School of Physics, has joined the technical staff of Murphy Radio, Ltd.

MR. A. F. SPENCER.

MR. A. F. Spencer, of "M.P.A." Wireless (1930), Ltd., has recently removed to 6, Lansdown Road, S.E.13, and would be glad if his business friends will kindly note the change.

"M.P.A." Wireless (1930), Ltd., incidentally, will be at Olympia, having taken stand No. 213.

MR. MACQUAKER JOINS VOCALION.

WE are officially informed by the secretary of the company that Mr. T. Mason Macquaker, the well-known Glasgow solicitor, has joined the Board of the Vocalion Gramophone Co.



Two of the latest Marconiphone showcards depicting the attractions of owning a portable receiver.

further argument by the foregoing decision—a course which has not been followed in all cities of Great Britain, where changes over to A.C. has been carried out.

* * *

Listeners in Elland, Yorkshire, for instance, are not so fortunate. The Elland Urban Council recently declined to grant compensation in respect of claims in connection with wireless apparatus affected by the change over in the system of supply, and the matter was brought to the notice of the Electricity Commissioners. After some correspondence with that body the Council has decided to adhere to its decision.

* * *

Grays Urban Council, we are informed, has decided to offer to supply mains units at cost prices to local listeners whose wireless sets have been affected by a change over in the local mains supply.

c 12

comprising various types of receiver, and one wavetrap class. At least one of these classes is open to employees of radio firms. Entry forms, obtainable from the Radio Editor of the *Evening Chronicle*, Withy Grove, Manchester, must be returned by September 15th. One noteworthy feature of the contest is that all components used must be of British manufacture.

Dealers in the County Palatine will not need to be urged to tie up with this competition, which cannot fail to result in large sales of components in view of its popularity, and the interest generally in the Northern Show.

K-B Dance next Friday.

The K-B Social Club, which has rapidly become a great success, and is very popular with the staff, is holding its first dance of the season at Sidcup next Friday, August 22nd. This will be a flannel dance and the music is being supplied by the firm's newly formed orchestra.

ROUND AND ABOUT

*People and Things
Seen
and
Heard
In the Trade.*

I RECENTLY spent an interesting afternoon at Kingston-on-Thames, a truly celestion urb. Mr. E. J. Marriott, the well-known Sales Director of Celestion, Ltd., was good enough to drive me down to the works and back, and though he enquired politely about the condition of my insurance policy, there was fortunately no need to make a claim.

Arriving at the offices and works, we proceeded to a nearby restaurant for lunch. Here I found what I took to be a nice little orchestra attempting to drown the miscellaneous lunch time "music" provided by the patrons. Of course, as I might have guessed, there was no orchestra at all. In its place there was a Celestion radio-gramophone, reproducing the lunch-time music from Brookman's Park. Frankly, unless one is quite close to the machine, it is hardly possible to say definitely whether the orchestra or the radio-gramophone is providing the music. Those who doubt this should visit the Zeeta restaurant when they are next in Kingston, and hear for themselves. Only don't be too cocksure about the source of the music if you go with friends, because the real orchestra *does* play sometimes. It would be rather unfortunate if you were to say, on approaching the restaurant, that you could tell that it was a radio-gramophone, and then find that it was actually the orchestra!

Incidentally, the latest Celestion radio-gramophone is known as the Kingston, and I hear that it has a very interesting circuit.

The latest Celestion products, which I saw and heard, are dealt with elsewhere in this issue, and I shall not mention them here in any detail, beyond saying that the new D.10 model, retailing at three pounds, brings a Celestion speaker within the reach of all. It is safe to prophesy a good sale for this model.

There are, as far as I can make out, two holies of holy (if this is possible) in the Celestion works. One is the department in which the well-known reinforced diaphragms are made, and the other is the research laboratory. I managed to penetrate the latter, where two interesting new products are being designed. One is a pick-up, with several novel features, and the other is an M.C. speaker. Celestion are not quite ready yet to talk about these, but from what I have heard they are good.

A visit to the radio-gramophone assembly department revealed some excellent examples of cabinet work. Also, Celestion specialise in hotel and ship equipment, a very fine example of the former being seen. This was fitted in a special leather-covered container, making it easily transportable. The whole power was obtained from a 12 volt accumulator, the H.T. supply being from a rotary converter.

The music for testing purposes is supplied from a central twin-turntable electric gramophone, which runs all day. It is apparently the duty of a girl to operate this and change the records, and I cannot conceive a more boring task than hers!

I came away convinced that Celestion, Ltd., had some good lines in the stocks, which will be seen at the Show.

AT the Coliseum, on the last day of the fortnight of Television, everything went much more smoothly than on the first day. The sound reproduction, too,

was greatly improved. Amongst other things, they put over the first "tele-talkie" ever shown to the public in any country. A "tele-talkie" (we must define some of these new terms) is a talking film reproduced at a distance by television. The film was run through at the Baird studios in Long Acre, speech and vision being transmitted and reproduced on the Television screen and loud-speaker at the Coliseum. The actual film shown was a relatively simple one of Mr. Sydney A. Moseley making a speech, but given better definition and a "screen" larger than the present one of 5 ft. by 2 ft., there is no technical reason why any "talkie" should not thus be broadcast. While the film was running Mr. Moseley appeared on the stage to show that he was not in the Baird studios. Mr. Baird was present in the Coliseum, but did not manifest himself to the public gaze.

W. E. M.

* * *

A PROMINENT City magnate recently described himself as a modern "Mark Tapley"—that Dickens' character who has been accepted as the prototype of those happy individuals who are never downhearted. Fortunately we have our Mark Tapleys in the radio industry—one of them being, beyond a doubt, Mr. Guy R. Fountain, managing director of the Tulsemere Manufacturing Co. When Mr. Fountain isn't cheerfully announcing a birth of a new son to the "Tannoy" family, or talking about a successful holiday on the Broads, he is even optimistic about trade.

A week or so ago—in late July, mark you!—he told me that radio-gramophones were selling well, which, according to the trade Jeremiahs, is wrong, if not actually immoral, at this time of the year.

As a matter of fact, I have a strong idea that success in this direction is not entirely divorced from the fact that Mr. Fountain has been known to demonstrate his instrument with a rather "so-so" gramophone record which was alleged to have been withdrawn from circulation.

But I fancy the disc is worn out now.

* * *

AND now a little spot of rumour—in advance of the full story which will be revealed in this paper next week—about the secret behind the "Red Star" mystery.

"Red Star" is a new conception—in this country at any rate—of radio for the masses. It is coming from the Midlands—from an industrial centre where the artisan class require their radio entertainment as much as any others in the community, but require it at the lowest possible cost consistent with efficiency.

The "Red Star" organisation has set itself out to meet that demand—not only locally, but on a nation-wide basis, and in quantities not hitherto undertaken in the production of complete receivers in this country.

The trade is undoubtedly intrigued by cryptic references to such items as "variable screening" and "dual detection." These are practical enough, but it is still more of interest to the retailer that "Red Star" means a low-priced, quick-selling line in complete sets, with a number of attractive points to commend them to his attention and that of his public.

S. G. W.

What the Trade Thinks about the VALVE PRICE REDUCTIONS

ENLIGHTENING EXTRACTS FROM A REPRESENTATIVE POST-BAG.

OUR post-bag has been unduly heavy during the past week. Already very many traders have sent us details of their valve stocks on July 18th, coupled with a note of the number of valves on which they can claim an allowance and the approximate loss in which the new B.V.A. rebate system has involved them. Even at the present time letters and postcards are still reaching us by every post, and at the end of the next few days we shall have accumulated a really representative collection of figures.

It will be recalled that we asked last week for the three vital figures involved, suggesting that a postcard employing something on the lines of the following wording would be quite satisfactory:

VALVE REBATE.

No. of valves, affected by the reduction, in stock on July 18th.....	
No. of valves on which rebate can be claimed.....	
Approximate loss involved.....	
Signed.....	Address.....

Even so, there are among the replies upwards of fifty letters which, in addition to giving the figures required, add some comments or suggestions that are eminently worthy of publication by virtue of their interest for the general body of our readers.

Unfortunately, we have not in this issue, of all weeks in the year, the space in which to print all our correspondents' views; but we give here extracts from a selection of the letters, which serve to show, more clearly than could a descriptive narrative, the circumstances in which some traders find themselves and the variety of the suggestions which have been put forward for improving the situation.

Big Retail Stocks.

Firstly, our correspondence shows beyond a doubt that there are many dealers whose stocks run into hundreds of valves. We print parts of five letters from the very much larger number of traders in this position who have written to us.

To the Editor.

SIR,—Since opening our premises a year ago we have stocked nothing but B.V.A. valves, but we are wondering if we should not have been better off had we put ourselves in the position to supply all the requirements of our public, and at the same time to avoid running the risk of the tremendous loss which we are likely to sustain every time there is a reduction in price.

Our stocks of valves which have been reduced amount to 214 (actually in cartons), and as we are only entitled to a rebate on 14 of them, our loss amounts to £15 16s. 1½d. We are not at the moment considering whether we should stock other makes of valves, but if the B.V.A. cannot look after us better than to cause such heavy losses, we shall certainly have to reconsider that policy.

C. Magrill (Magrills, Glasgow).

SIR,—We find we have 207 valves affected by the reduction, and our nett loss is £14 5s., since the total number of valves purchased during the two months of the rebate period was 15.

This, of course, does not mean that we sold only 15 valves in the two months. As you will see from our analysis, we always maintain a good stock upon which to draw and we have not troubled to replace valves at this time of the year as regularly as we should have done during the winter.

R. J. Griffin (Griffin Bros., Leighton Buzzard).

SIR,—We quote from our day-to-day stock sheets which show 366 valves in stock on July 18th, against which we are to be allowed credit on 79, so we are badly let down. The fairest method would undoubtedly be to make reductions on January 1st, which would mean a bigger credit and one more likely to cover stocks.

While on the subject, we wish to voice a protest against the meagre discount. Goods as fragile as valves should bear a margin of at least 33½ per cent., to help cover losses by filament breakage in stock and the heavy cost of packing and postage on returning "duds."

H. Hale (Hale Ltd., Farnham).

SIR,—Out of a total stock of 381 valves we had 292 affected by the reduction, of which only 31 were bought during the preceding two months, thus involving us in an approximate cash loss at purchase prices of £19 11s.

Our two months' purchases may seem very small compared with our stocks, but it must be remembered that at this time of the year we try to get stocks down to a minimum, and also that we are now buying an increasing number and proportion of mains and other types of valves not affected by the reduction. Our winter stocks are approximately 50 per cent. above the figures quoted. C. S. Stephenson (Radio Equipment Co., Huddersfield).

SIR,—We endorse all our fellow traders have said in your columns with regard to the valve price reduction. Our stock on July 18th was approximately 220 and the number on which we can claim rebate is less than 25, so the approximate loss to us is about £20. C. H. Dawson (Dawson & Steer, F. Grinstead).

* * *

On very different lines, but with an equal degree of interest, is the following statement, which may, perhaps, suggest a state of affairs likely to be encountered by the B.V.A. in the future. The letter is entirely *bona fide*, but, in view of its rather unusual nature, we have consented not to publish the name and address of the trader concerned. We merely quote the essential paragraph:

"In the year of the big drop in price we had a stock of about 1,000 valves (quite a reasonable number as we were selling about 100 a week), and we sustained a nett loss of about £40. The date of the year has been forgotten, but not the amount of our loss. We immediately changed our policy, and went from grosses to quarter-dozens, at the same time pushing to our utmost ability the sale of "non-ring" makes, of which we have since sold thousands. Our policy is the same to-day; hence the significance of our present negligible stock of 'ring' valves."

The Arbitrary Date.

Quite a number of our correspondents comment on the fact that the fixing of a particular date for the commencement of the rebate period (as opposed to giving the trade suitable advance warning of the reduction) can have an important effect on the dealer's position. Four typical cases are outlined in the following letters:

SIR,—From a stock of 155 valves on July 18th I shall only obtain credit on four, so that I have been very hard hit by this reduction. If only another month had been included in the time allowed for credit, I should have been considerably better off, since my invoices for that month amounted to just over £16.

A. J. Selby (Burton-on-Trent).

SIR,—Out of a stock of 62 valves on July 18th, I can claim rebate on 15, leaving me with an approximate loss of £4 10s. od. I may also add that I have a manufacturers' invoice dated July 16th for the nett cost of valves totalling £4 4s. 5d., but the firm in question have refused to give me any rebate.

L. P. Hedges (Aylesbury).

SIR,—The number of valves affected by the reduction which I had in stock on July 18th was 78. I have claimed rebate on 31, and the loss involved is about £5. I may add that of the 31 there were 12 whereon I secured rebate by one day—for which I account myself lucky.
F. G. Smith (Seaton, Devon).

SIR,—I have a stock of 81 valves which would have ranked for rebate under the old system, besides about 45 in sets. May purchases were delivered on the 10th of the month, and therefore I missed rebate by a very small margin. This leaves me with an allowance on only 7 valves, which has not been claimed up to the time of writing, as I have taken up the matter with the B.V.A.
A. Phillips (Hindhead).

Not all of the letters we have received are severely critical of the B.V.A. Some, in fact, although they are in the minority, are distinctly moderate in their observations. For example:

SIR,—We would state that under the scheme of full credit for all reductions we should have been entitled to a nett credit of £2 14s. 2d., but under the new method our total credit is £1 8s. 10d. Nothing serious, we admit, but still not quite O.K.

We think that it was a little unfair of the B.V.A. to take only the two quiet months. However, it is a difficult problem, and had traders played a straight game under the old system, all would have still been well.
L. W. Chadwick (Littleborough).

SIR,—I may say that I have stocked only B.V.A. valves until now, and have suffered in consequence, as this is a working class district. But I am now thinking of stocking other valves and signing no agreement until the B.V.A. give more practical sympathy and help to their agreement-holders.

I have 74 valves in stock and shall get an allowance on 4, meaning that I shall have to sell the rest practically without profit, as well as giving the service they may entail.
A. Turner (Rotherham).

SIR,—Thanks for your leading article of August 9th. My actual stock, taken on July 18th, was 220 valves. I have only claimed rebate on 50.

The hardship caused by the existing method is rather severe. Please urge the B.V.A. for some modification. The arrangement is an inequitable one; the loss sustained is not commensurate with the advantages gained, nor is it conducive to maintaining confidence.
Arthur Brand (Plymouth).

Suggested Alternatives.

Needless to say, very many traders in writing to us on this vexed problem have put forward suggestions for improving the position. It is worth noting that even non-agreement holders, who appreciate that they are worse off than many of their fellow dealers, are included in this group, and a letter from one such retailer is among the half-dozen on these lines given below.

SIR,—We carry a large stock of valves all the year round, and during the winter this is turning over fairly rapidly; but during the months from April to July sales are practically at zero, with the result that few valves are purchased during that period. In point of fact, we find that our present stock is valued at £294 14s. but we are only entitled to credit on valves to the value of £17 18s.

We suggest that in the event of changes other than price reductions most traders are called upon by manufacturers' representatives within a day or so. Why, therefore, cannot the B.V.A. arrange for co-operation among members' representatives for taking dealers' stocks on the occasion of a price reduction?
Gibb & Watson (Kirkcaldy).

SIR,—My total loss on the reduction is £4 os. 6d.—a contingency from which I considered I was protected by my agreement, and that is the reason why I have carried good stocks for the size of this place and my business.

What ought to be done is that every valve should be taken in and re-issued at the present price, and I trust that your efforts on our behalf will prove successful.
Andrew Robertson (Newburgh, Fife).

SIR,—Since we are only in a small way of business, our loss (£3 14s.) is in comparison as serious as that involved by larger firms. No doubt the public appreciate the reduction, but they did not definitely want it, and we consider it would have been much better if the manufacturers had increased the trade

discount. If they are prepared to give anything away, surely the trade is entitled to some share in it, instead of being faced with a serious loss.
R. C. Beer (Bridgwater).

SIR,—Under the new arrangement we have lost credit on 49 valves (which is £3 12s. 3d. nett) whereas we ought to be credited with the reduction on all goods in stock. If a false return is made by a dealer, he should be prosecuted. A few checks by the B.V.A. and an action or two would frighten the dishonest ones, and the fair trader would avoid such losses as this.
R. V. Lawton (Bridgnorth).

SIR,—Traders among the B.V.A. agreement holders who carry comprehensive stocks of valves are punished every time for their enterprise, and I think the rebate system to be very unsatisfactory indeed. In my own case, out of 83 valves I can claim on only 11, leaving me with an approximate loss of £5 4s.

I suggest that a satisfactory estimate for credit purposes could be obtained if forms were issued to all factors, whose travellers could then take the stocks of retailers on the actual day the valves are reduced, and the statement could be signed both by the traveller and the dealer. Could anything be fairer or more accurate?
E. Swarbrick (Fleetwood).

SIR,—We had in stock on July 18th, 278 valves, and as we are not agreement holders we do not care to work out the actual loss incurred. We have not signed the agreement, for we object on principle to being dictated to with regard to what we stock.

By way of contrast we think that A. H. Hunt, Ltd., are to be commended on their system. "Hellesen" batteries are to be reduced to the public on September 1st, but new prices for wholesalers took effect from the 1st of the present month and for retailers from about the middle of the month. This gives both sections a fair chance to clear their existing stocks, and, of course, a corresponding increase in profits on any batteries that may be purchased before the dates of the reduction.
——— (Hammersmith).

Serious Points.

Among the large number of dealers affected by the reduction there are some who raise detail points which are sufficiently serious to merit individual investigation, but at the moment, of course, it is more important that the even graver general issue at stake should be disposed of.

A typical example of the statements made to us is that of a firm of traders in Bath (Maxim's). "We ourselves," they say, "have been let into the drop very badly, for early this year we decided that there was every prospect of a substantial reduction in valve prices in June and we gave orders for only skeleton stocks to be held at our three shops. However, every valve manufacturers' representative assured us that there was not the remotest chance of a change in prices this year (and this statement was even confirmed by district managers), and, therefore, we retained our usual summer stocks. We even agreed to one of the manufacturers exchanging old type valves for new ones on a three- or four-to-one replacement basis, and our stocks are even larger than usual, with the result that we have lost very considerably."

Another suggestion which calls for serious consideration is outlined in the following letter:

SIR,—I suggest that the new prices of valves represent a great advertising scheme which is being paid for by the humble trader, who looks to the B.V.A. for protection. There is a memorandum which accompanies every agreement sent out by the Association. This is signed by the Secretary and, following Clause 3, it points out that *non-agreement holders do not receive any allowance in the case of price reduction.*

My interpretation of this is that agreement-holders are quite safe in holding adequate stocks, since they are safeguarded against loss in the event of price reductions. F. C. King (Oxford).

Many more pages could be occupied by extracts from our post-bag on these lines, but these, at any rate, will serve to show the extent and varied character of the correspondence we have already received.

Obviously the matter cannot rest where it is, and as soon as this issue has been in the hands of the trade for two or three days and the volume of daily letters begins to decrease, we propose to analyse the results very carefully and offer them to the B.V.A. for their earnest consideration and an expression of their views.

PROVINCIAL TRADE NOTES

No Cutting in Derby.

ANNUAL holidays in the various local works, together with the large numbers of dismissals in the railway shops here, is tending to keep trade rather quiet. There is, however, one fortunate aspect of the situation—namely, that Derby is not suffering from any price-cutting plague, but there is, from time to time, some trouble with dabblers. The most noteworthy feature of trade recently has been a falling off in the demand for H.T. accumulators. These have always sold fairly well before. No slackening off in ordinary battery charging is noted, however.

Mr. Robinson, of Curzon Street, is stocking "Pegasus" portables. The performance of these 15 guinea instruments is reported as excellent by many listeners here.

Messrs. Batterby & Hefford, electrical and radio engineers, Normanton Road, Derby, have extended their business. New and well-fitted showrooms have recently been opened at 40, The Strand, Derby, and are greatly appreciated by prospective customers.

Radio-Gramophones Sell in Leicester.

MR. W. C. TURNER, of T. H. Wathes & Co., Ltd., reports a very marked falling off in the demand for portable receivers. All-mains sets, he says, are now the vogue, although the public nowadays seems to prefer console models and even radic-gramophones. Mr. Turner expressed the opinion that the big advertising campaigns of Philips' had done much to direct public attention to the advantages of all-mains radio. Mr. Turner's firm continue to do good business with Pye and Burndept products, and have also just recently taken up a Marconi-phone agency.

Another dealer to whom I spoke had a different story to tell about the portable demand. I gathered that the Detex portable at eight guineas has been well received in Leicester, and that it has given a real fillip to business.

The two principal music houses here, Sir Herbert Marshall & Sons, Ltd., and W. H. Russell & Son, are all out for business with the H.M.V. radio-gramophone, special window displays being run in conjunction with demonstrations.

Griffins report fair business at present. This firm continue to handle Kolster-Brandes products with really gratifying results.

No meetings of the Leicestershire Radio Traders' Association have been held during the summer months, but that does not signify stagnation. A large amount of work has been going on behind the scenes. The committee has now almost completed arrangements for the next winter session, which will again be made interesting by lectures and demonstrations by representatives of various manufacturers.

The Leicester Home Life Exhibition this year is to be held from September 10th to 20th, but only four local radio firms will be represented. These are T. H. Wathes & Co., The Midland Dynamo Co., Ltd., Griffins, and another firm of which I am at the moment unaware. Several music houses will also be exhibiting, so that radio will again be well to the fore. The regulations have undergone some revision, and no set demonstrations will be permitted on the stands, though a common amplifier will be provided for speaker demonstrations. Special audition rooms are also being provided.

Big Demand for Batteries in Manchester.

DESPISE the alleged "hard times" in Manchester, business this summer has been much better than for the corresponding period last year.

"Mains units are selling well and the new 66R and chassis are already quite in favour," I was told by Mr. Dunderdale, of Wellworthy's, in Wither Grove. Kolster-Brandes and Pye mains sets are strong lines, though portables have fallen off, but Wellworthy's have sold a fair number, especially the Detex at 8 guineas. Pertrix batteries are having a big run. Indeed, I was told of two orders that were accidentally doubled from the factory—fortunately for Wellworthy's, as the whole supply was soon exhausted!

Mr. Horner, proprietor of Nutts, the wholesalers, 26, Dantzic Street, Shudehill, reports continued progress. The year has seen an increase in the sales of loud-speakers and batteries. The Suralite battery especially is very popular. Among portables the Pye is predominant.

The recent bad weather has resulted in interest in radio commencing earlier in the year than is usual. One telling advertisement seen recently announced that "the most cheerful friend on a rainy day is a wireless set."

Plymouth Firm's New Short Wave Set.

STONEHOUSE Radio Supplies, of Union Street, Plymouth, have just put on their market their "Universe" ultra short wave set, about which, I understand, glowing reports are being received. This constructor's set, which costs but £1 18s. 6d. to build, incorporates the new patent S.R.S. ultra short wave unit. The vital wiring of the set is contained inside this unit, so that the set is practically foolproof. The set will tune easily below twelve metres, and, it is gathered, has a world-wide range.

After a slack period business is improving in the Plymouth area. Messrs. Geoffrey Stuart have closed down their Union Street premises and have a temporary home at 48, Bedford Street, pending the rebuilding of their new shop in George Street.

Yorkshire Trade Anomalies.

HOW is it that if a wireless dealer allows the reproduction from a loud-speaker to be heard outside his premises he is proceeded against, while hundreds of potential wireless users are deprived of their rights owing to interference from industrial concerns? This question, which was put to me by one of the largest wireless dealers in the West Riding, is one which other traders are asking, and is of special interest to the trade in practically all other industrial districts.

In Huddersfield, for instance, owing to interference from electrical machinery in factories, reception is impossible on the lower broadcast wavelengths. The matter has been brought to the notice of the local Member of Parliament, who has taken it up with the Postmaster-General. It is agreed that the trouble could be remedied, but this would cost money and there is, at present, nothing to compel the remedy to be applied.

Another anomaly pointed out by the same trader was that, while motor cyclists were fined for having inefficient silencers on their machines, motorists could spoil television demonstrations for wireless dealers by leaving their car magnetos running outside, and in existing circumstances the wireless dealer is helpless.

Here are two concrete instances in which effective action could be taken if the trade were united locally. This has naturally led up to the question as to the possibility of forming a local W.R.A. branch.

The replies were not too favourable. Owing to some reason or other, there is an apathy among many radio traders, and experience in at least two large towns has proved that the organising is left to one or two of the more energetic, while the others merely receive the benefits. If this apathy can be counteracted, and proof given that the W.R.A. can remedy these various evils, there would appear to be good prospects of success in the West Riding.

A third grievance heard during a recent tour among traders was that of unfair competition in regard to public address contracts. In one instance the proprietors of a national daily, which is having much to say about fair trade, agreed to undertake a big contract free of charge in Huddersfield if it was allowed full scope. Fortunately, in this instance, the promoters of the public event did not accept this free advertising stunt, and the contract was secured by the Venus Radio & Electrical Co., Ltd., who have had considerable experience in this class of work. Messrs. Sellers, of Leeds, carried out a similar contract on the occasion of the visit of the Prime Minister to Kirklees Park, near Brighouse.

Dewsbury Chamber of Trade are organising another trade exhibition in the Town Hall in the autumn, and present indications point to a most successful show.



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AMPLION

BALANCED ARMATURE SPEAKERS

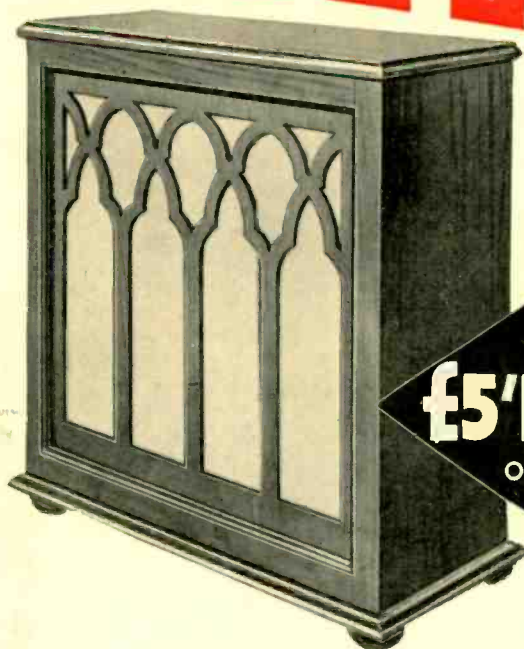
because

- 1 They improve every set and are therefore bought to replace older speakers.
- 2 Every type of set and all kinds of customers are specially provided for amongst this range of Amplion models.
- 3 Owing to the provision for alternative impedances, these speakers can be matched to the output of any set.
- 4 They combine realistic reproduction with generous volume handling capacity.
- 5 There are hundreds of thousands of listeners who appreciate the significance of "Amplion Reproduction."

VOLUME

As all-purpose speakers, these Senior Balanced Armature Speakers have no equal. The unit is of recent design and very powerful. With two alternative impedance values they suit power valves or pentodes equally well, and therefore on any kind of output they possess exceptional power handling capacity and tonal range. Fitted with 14" cone, they are housed in the handsome cabinets of the "Lion" series which have been so universally admired.

Many of the people who pass your shop every day possess old or obsolete speakers. They will soon come to realise they need a new one if you keep an Amplion A.B.41 demonstrating at your shop—and they will know where to get it.



A.B. 41. O.

£5'15'0
OAK



A.B. 41. M.

£6'6'0
MAHOGANY

AMPLION

but **QUALITY** and **REALISM** too

By reason of their sensitivity to the faintest signal, these models are the equivalent of an extra amplifying valve in any set.

Judged by their capacity to handle considerable volume without distortion, and especially by their crisp, clear reproduction, these speakers can justly claim to have no rival at their price.



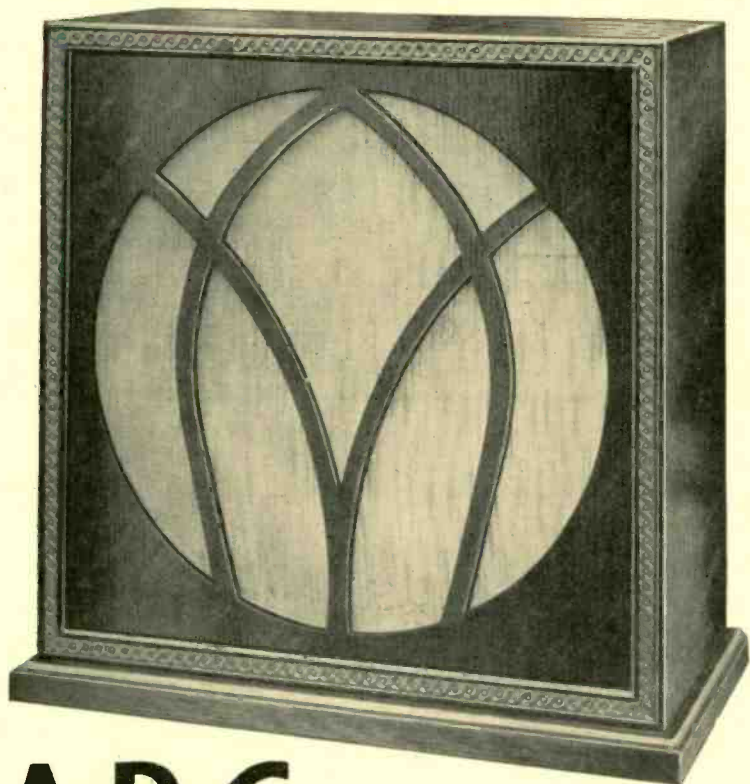
A.B. 45. O.

£6'15'0
OAK

£7'7'0
MAHOGANY

AMPLIONI

A FIRM FAVOURITE IN A NEW FINISH!



THE STANDARD BALANCED ARMATURE SPEAKER TYPE A.B.6.

Gaining new friends every day, the A.B.6 has been an unbounded success ever since its introduction at the last Radio Exhibition, where its fine performance fulfilled all promises. To the oak model (£4.10.0) and mahogany (£4.17.6) has now been added a WALNUT design, at the same price as mahogany. Opinions already expressed describe this new finish as "beautiful."

Specially suitable for Amplion's new 2 valve set in walnut cabinet. This model also commands big sales on account of the large number of other receivers now marketed in walnut cabinets.

GRAHAM AMPLION LTD.,
Sales Offices: 26, Savile Row,
LONDON, W.1.

A.B.6

WALNUT

£4.17.6

AMPLION

LATEST RECORD REVIEWS

This week we review the Mid-August issue of Decca records.

Dance numbers having vocal refrains are marked with an asterisk (*)

The Decca Record Co., Ltd.,
1-3, Brixton Road, London, S.W.9.

DECCA

10 IN., BLUE LABEL, 2S.

F 1852.—*Sorella* and *Palladium Rag*, by G. R. Spindler and his Mamelok Banjo Band.

Two bright but rather nondescript pieces by a combination consisting solely of banjos. The playing is lively, and the tone of the disc is clear. It is not the type of record, however, for which a big sale is assured.

F 1853.—*Grandpa's Adventure* (Odell) and *Merely Medley* (Odell), by the Westminster Singers.

The first is a rather unusual piece, intended to imitate a country girl's description of her grandfather's attempt at a visit to London, which was frustrated by his healthy appetite. Quite amusing. The second side is a medley of popular songs, amusingly arranged. The recording is clear and natural. The singing is, of course, unaccompanied.

F 1854.—*Vienna Blood* (J. Strauss) and *My Happiest Day in Berlin* (Gung'l), by the Underhaye Octet.

Two "Viennese" waltzes, of which the first is particularly well-known. Both are most attractively played by this octet. The tone is really excellent, and there is a fine string bass. This would make a good demonstration record. Very good indeed.

F 1855.—*When It's Springtime in the Rockies* (Saurer) and *It Happened in Monterey* ("The King of Jazz"), by Lou Abelardo, with orchestra.

Lou Abelardo croons his way through these two light pieces in his usual style. Both are popular at the moment, the second being from Paul Whiteman's sound film. There is an accompaniment by a dance combination. The tone is very good, and the disc should be quite popular for a time.

F 1856.—*You Know What I'll Do* (F.T.) and *Happy Feet* (F.T.), by Philip Buchel, with Spike Hughes and his Three Blind Mice.

This is a novelty among dance recordings in that both numbers include some clever tap dancing which, Decca state, was performed on the floor of the studio and did not have to be faked in any way. Apart from this the record may be treated as an ordinary dance disc. "Ordinary," perhaps, is hardly the word, for the numbers are given in typical Spike Hughes style, with some good instrumental solo work, and a tip-top rhythm. Very good recording.

F 1857.—*Over the Garden Wall and How Does a Black Man Know When He's Dirty?* by George Buck, comedian, with piano.

Both songs are of the comedy type, but the second seems likely to be the more

popular. The first contains several animal imitations, but is otherwise not outstanding. There are some good piano passages, and the tone is very clear.

F 1858.—*To My Mammy* (F.T.*) and *Let Me Sing and I'm Happy* (F.T.*).

F 1860.—*I Love You So Much* (F.T.*) and *All Alone Monday* (F.T.*), by the Rhythm Maniacs.

The first two foxtrots—by Irving Berlin—come from Al Jolson's latest film effort which bears the inspiring title of "Mammy." The titles do not do justice to the numbers, however, which are both good tuneful compositions and should become quite well known. The other foxtrots on F 1860 are better still, and all are played in excellent style, with plenty of rhythm and colour, and good vocal work. The recording, too, is quite up to standard.

F 1859.—*H'lo Baby* ("The Forward Pass") and *My Baby's Fine and Dandy*, by Max and Harry Nesbitt, duets with piano.

Two very snappy numbers, sung and played in fine style by these new Decca

artists, one of whom plays a banjulele. The second contains an amusing imitation of a baby crying, while both include numerous vocal "effects." The tone is excellent.

F 1861.—*Harlem Madness* (F.T.) and *Blue Turning Grey Over You* (F.T.*), by Spike Hughes and his dance orchestra.

Another Spike Hughes record, this time by the complete orchestra. It is really most illuminating to hear what the boys can do when they get together and go "all out" without being tied down to straightforward and conventional renderings. Decca should be congratulated on giving them the chance to make modern "hot" records comparable with those produced by widely known American combinations. "Harlem Madness" is full of original ideas and in addition to possessing a smashing rhythm throughout, is notable for some fine trumpet work, including some remarkable "high stuff" at the beginning and end. The second foxtrot is in slower tempo and has a more flowing style, without in any way destroying the rhythm. A very interesting disc.

GRAMOPHONE NOTES AND NEWS.

An "Academy" Folder.

From the Johnson Talking Machine Co., of 96, Clerkenwell Road, London, E.C.1, we have received a folder describing many of the latest "Academy" gramophones, portable and floor models. These range in price from £2 9s. 6d. for the popular "Nippy" portable up to eighteen guineas for a large pedestal cabinet.

An interesting point to note about several of the "Academy" machines is that they incorporate an automatic needle cup delivering one needle at a time. Automatic stops are almost universally fitted.

A broadsheet giving details of the various "Academy" stockrooms is now available, and obtainable on application. It will be remembered that we gave details of the more important of these in a recent issue.

Expansion of German Gramophone Trade.

A return lately issued shows that the export trade in German gramophones and records is growing at a rapid rate. As will be seen from the appended table, the shipments of the two classes of goods underwent an increase during last year of nearly 30 per cent.

	GERMAN GRAMOPHONE IMPORTS AND EXPORTS			
	Imports	Exports	1929	1928
Gramophones	34,285	35,333	786,714	609,333
Records	49,237	51,905	960,381	660,476
Totals	83,522	87,238	1,747,095	1,278,809

As against an increase in exports, last

year witnessed a falling off in imports, about 50 per cent. of which are credited to Great Britain.

Columbia's Half-Million Profit.

The directors of the Columbia Graphophone Company announce that the profits for the year to June 30th amount to £580,159 (against £505,121 for 1928-29). The balance brought forward was £261,572, making a total of £841,731. There has already been paid an interim dividend of 15 per cent., amounting to £192,430, and the Preference dividend for the year is £21,000. This will leave an available balance of £628,301. The directors will recommend a final dividend of 25 per cent., making a total for the year of 40 per cent. (against 45 per cent.).

Neath's First Gramophone Recital.

The people of Neath attended their first gramophone recital recently, and if remarks overheard at the exit are any indication of their appreciation, it was thoroughly enjoyed.

The Gramophone Co., in conjunction with Messrs. N. Hedge & Sons, and H. Salter & Sons, their local agents, secured the spacious Gwyn Hall for the recital, which was conducted by Mr. Leslie Burgess of the Gramophone Co. The repertoire was varied and proved a delight to all present. It is to be hoped that this will prove to be the first of a series of entertainments of a like character, which should prove of advantage to local traders.

WITH THE TRADE ASSOCIATIONS.

ULSTER TRADERS' ASSOCIATION AND Bucks Support W.R.A. Council.

Buckinghamshire Branch, W.R.A.

AFTER a short discussion, the members of the Bucks branch of the W.R.A., at their meeting held at The Coach and Horses Hotel, High Wycombe, recently, passed a vote of satisfaction and sympathy with the principles and aims adopted at the joint meeting of the National Council and Delegates at Headquarters on July 9th.

The secretary (Mr. Woodbridge) said he was very pleased to report real activity and live interest at headquarters. The National Council, he said, was doing its utmost to forward branch organisation, and the only thing now was to get into working order the principles adopted. The meeting of July 9th was keen and enthusiastic, and it was incomprehensible to him how Mr. Carter could have left that meeting with any other feeling, particularly so when the measures adopted were those for which he was asking. Mr. Woodbridge emphasised that the official report issued by headquarters, W.R.A., was the correct one. It was a great pity that Stockport had adopted its present attitude when national unity was required and being attained. He anticipated big strides in the forward movement of the W.R.A. during the coming season, and he had every confidence in the W.R.A.

Mr. E. S. Burnett concurred, and said that he agreed with the recommendations of the branch delegates' meeting.

Mr. E. W. Burnett (chairman of the branch), who presided, stated he was very pleased to hear such a favourable report from the delegates, particularly so when it was that which Bucks had been asking for in the main all the time.

A discussion followed on the best way to organise Bucks in view of the scheme in hand. Mr. Holt was of the opinion that the best way was to get together a list of all the bona-fide retailers in the county. Mr. Cooke thought that this should be done at once, and suggested that all members of the branch send a list of the genuine retailers in their respective districts to the secretary before the next meeting of the branch. This the members promised to do.

Mr. E. S. Burnett said he thought it advisable that trade journals at the forthcoming exhibition be so displayed that they could not be read by members of the public. Mr. Lloyd, supporting this view, said that it was very undesirable that the public should have the slightest opportunity of gaining knowledge of discounts, and facts which were only published for trade information. It was decided to write to headquarters asking them to take the matter up.

The secretary then brought forward the question of the exhibition, pointing out that Manchester was holding itself responsible for the W.R.A. stand at the Manchester Exhibition, and suggested that Bucks pulled its weight at Olympia. This met with approval, and it was decided that Bucks should offer to take charge of the stand on the Wednesday in Exhibition week.

Ulster Wireless Traders' Association.

ANEW policy has recently been introduced by the Ulster Wireless Traders' Association, whereby meetings open to all the members are now held quarterly and committee meetings are held more frequently.

At the general meeting held at the Carlton Restaurant, Belfast, on Thursday evening of last week, several important matters dealing with the forthcoming Ulster Wireless Trade Exhibition, to be held in the Ulster Hall, Belfast, during the week commencing October 15th next, were dealt with. The attendance was rather below average by reason of the holiday season. Among recent new members are Messrs. W. Erskine Mayne, Fountain Street, and Mr. R. J. Field, representing the radio department of Philips Lamps, Ltd., Clarence Street. On behalf of the members Mr. Robert Scott, Chairman of the Association, in tendering a very cordial welcome to Mr. Field, said that the reputation of his firm had preceded him. He hoped that as their Northern Ireland representative he would get the full support of the

trade, and undoubtedly the presence of representatives of manufacturers gave excellent opportunity for mutual discussion with retailers on subjects of common interest. The minutes of the last general meeting and those of several meetings of the joint council were then read and adopted.

It was stated that an important innovation in connection with the coming exhibition would be a procession of decorated cars touring the main Belfast streets on the opening day. While the Ulster Wireless Traders' Association would provide two P.A. vans for the procession, it was hoped that as many manufacturers and traders as possible would do their best in providing other vans attractively decorated. The parade would not be confined to exhibitors merely, so all firms would have a splendid chance of displaying their goods.

As a result of the committee's visit to London a couple of months ago it was reported that it had been possible to let all of the 28 stands. One example of the enthusiasm being shown was afforded by the action of Messrs. Henderson, Ltd., the wireless traders of Newtown Stewart, Co. Tyrone, who were organising a special train to take people to the Ulster Radio Show. It was unanimously agreed that they would be welcomed by free admission to the Ulster Hall.

It had been possible also to obtain the consent of Dr. Livingstone, M.A., the popular Vice-Chancellor of Queen's University, Belfast, to perform the opening ceremony and it was expected that several representatives of the Ministry of Commerce and of the Radio Manufacturers' Association would be present as well.

Tenders for the construction of the stands were discussed and the contract was placed with Messrs. McCord, whose work at previous exhibitions had been highly satisfactory. For the special lighting, which will be a feature of the show, the tender was placed with Robert Galt & Son, York Street, Belfast. Tenders for supplying catalogues, which will be considerably improved and made worthy souvenirs, were considered, and that of Messrs. T. H. Jordan accepted.

Considerable discussion ensued as to whether the display of radio apparatus at the Electrical Exhibition in the Ulster Hall during the week prior to the Wireless Exhibition may interfere with the latter. It was decided that an invitation should be sent to the Secretary of the Electrical Exhibition asking for a conference and interchange of views, with the aim that both shows should be mutually helpful.

It was hoped that an arrangement would be made with the B.B.C. for them to occupy the Ulster Minor Hall with a temporary studio. Ferranti, Ltd., have kindly consented to provide amplifying apparatus.

Blackburn Branch, N.F.R.R.

WE have received from the hon. secretary of the Blackburn Branch of the N.F.R.R. a report of the meeting held on August 5th, at the Y.M.C.A., Limbrick, Blackburn. Mr. Hugh Boyle occupied the chair. Mr. W. Burton, the local hon. secretary, read the minutes of the last meeting, which were confirmed.

The report states that the question of a National delegate was brought forward and the secretary was requested to write to London for further particulars. The question was raised of a local man, who is stated to be employed in the Income Tax office and who is building sets with licence tabs affixed, indicating that he has been licensed by the Marconi Company. It was decided to ask head office to get in touch with the Marconi Company and the Income Tax Commissioners to enquire if they are aware of the circumstances and intend taking action. Gratification was expressed at the fact that one dealer who commenced price-cutting in Blackburn had gone the way that it was expected all price-cutters would go.

In their report the honorary canvassers said that two new members had joined, few retailers in the district now not being.

THE BELFAST SHOW. N.F.R.R. Activities.

members. The secretary was instructed to obtain full information from the National Register at Head Office respecting all radio retailers in Blackburn.

Much interest centred round the question of lectures by prominent manufacturers, and it was decided to write to Ferranti, Ltd., Oldhams, the Chloride Co. and several others, with a view to inviting them to send lecturers to the Branch. It was also hoped that some works visits could be arranged.

After finance had been discussed the meeting closed with a vote of thanks to the chairman.

Brighton and District Branch, N.F.R.R.

ANOTHER report that we have received from the Hon. Organising Secretary of the N.F.R.R. concerns a meeting of the Brighton and District Branch of the N.F.R.R., held at Chapel Royal Hall, Brighton, on July 29th. Mr. C. H. Browne (Chairman of the Branch) occupied the chair, supported by Mr. North (Hon. Local Treasurer) and Mr. W. A. Allwright (Hon. Local Secretary).

The minutes of the inaugural meeting were read and confirmed. The Secretary read correspondence with reference to a case of price-cutting in Hove, and this was followed by a long discussion on the subject. It was proposed by Mr. Newman, and seconded by Mr. Marchant, that definite action be taken in the case of the sale at cut prices of a well-known make of accumulator.

The question of tramway employees endeavouring to obtain discount on radio goods from local traders was fully discussed, and it was hoped that all local retailers would refuse to supply at less than retail price. In this connection it was decided that all members should be notified of all local associations claiming discounts in order that collective action might be taken against the practice. Mention was also made of a case of dabbling.

The question of the carriage on faulty sets returned to manufacturers was brought forward, and it was suggested that Head Office might circularise manufacturers with a view to all faulty sets being returned carriage forward. The present system meant that the retailer was out of pocket.

The chairman appealed to every member present to endeavour to get one new member by the time of the next meeting. It was proposed by Mr. Tingley, and seconded by Mr. Bandy, that a sinking fund be instituted by the branch.

It was suggested that a list of all the members of the Brighton branch of the N.F.R.R. should be published in the local papers, pointing out to the public that the firms mentioned could be relied upon to give expert advice and service. After discussion it was proposed by the chairman, and seconded by Mr. Youldon, that such a notice should be drafted by the secretary for the approval of the members at the next meeting. Three new members were enrolled, and the next meeting was fixed for next Tuesday at the Chapel Royal Hall, Brighton.

Burnley Branch, N.F.R.R.

AREPORT has been received by us on the monthly meeting of the Burnley Branch, N.F.R.R., held on August 7th, at the Café Royal, Burnley. The report states that at this meeting, the branch secretary, Mr. Mallinson, after reading the minutes of the last meeting, which were adopted, then mentioned THE WIRELESS AND GRAMOPHONE TRADER, and the "paltry reports of the meetings of this Federation, etc.," which are published. Various members had expressed disapproval in this connection, and Mr. W. Ford proposed that the secretary write to the Editor asking for the reason, if any, for the persistent cutting down of the reports of the Federation's activities when published in THE TRADER. Mr. J. Herbert seconded the resolution, which was carried unanimously.

[Our reply to this criticism has already gone forward to the secretary of the Burnley Branch. Briefly, it is that were we permitted to attend the proceedings of the N.F.R.R., and to prepare our own accounts of what takes place, we should in all probability find considerably more material of general news interest for the



A photo taken at the recent visit of the Stockport Radio Retailer's Association to the factory of Ferranti Ltd. From left to right, standing, are Messrs. Adkin (Ferranti), Cookson, Hallam, Betts, a Ferranti representative, Mr. Baggs (Ferranti), and Messrs. Beeley, Penney, Carr (Ferranti), Goostrey, Wildbore (Ferranti) and Neill. In front are Messrs. Southam, Norcross (Hon. Secretary), Heaps (Chairman), Mottershead, Howarth and Carter.

majority of our readers than is at present contained in the reports we receive.—EDITOR.]

A long discussion took place on the subjects of electrical interference to radio reception and the B.B.C. programmes. Members agreed that these were of great importance to the radio trade, more so than the Government Departments concerned seemed to appreciate. It was decided that the secretary should endeavour to impress these views on the departments mentioned by writing a letter of complaint to the Rt. Hon. Mr. A. Henderson, M.P. for Burnley, on the subject of broadcast programmes, particularly in regard to the reinstatement of the suspended day-time programme and the brightening of the Sunday broadcasts.

Since complaints to the P.M.G. regarding electrical interference invariably bring the reply that the Post Office has no legal power to prevent users of electrical machinery causing interference to reception, it would appear desirable that steps should be taken to obtain from Parliament necessary powers in the interests of broadcast listeners and the wireless trade generally.

The secretary was instructed to bring to the notice of Head Office the practice of a London firm, who were stated to be supplying kits of parts for cash or deferred retail payments, and that they were also supplying retailers at trade terms and factors at factors' terms. These activities suggest that these people are enjoying exceptional generous preferential discounts, which enable them to carry out these practices.

A discussion took place on how to sustain the interest of members of the Branch. Mr. J. Herbert suggested that manufacturers be approached to send lecturers to Branch meetings. It was decided that this matter should be left in the hands of the committee to arrange a definite programme. The secretary was instructed to write informing Kolster-Brandes Ltd. that a certain K-B dealer in Burnley was a confirmed price-cutter to the knowledge of those present. At the close of the meeting satisfaction was expressed at the activities of the N.F.R.R. The meeting closed at 11 p.m. with a vote of thanks to the chairman.

Stockport Radio Retailers' Association.

IN addition to the cancellation of the usual monthly meeting of the Manchester Branch, W.R.A., it should be noted that the Stockport Radio Retailers' Association cancelled its fortnightly meeting due for this week. This was owing to the fact that the present week is Stockport town's annual holiday, lasting a week and terminating to-day.

W.R.A. Council Meeting.

WE had hoped to include this week a report of the special meeting of the W.R.A. Council that was held last week in London, but owing to extreme pressure on space we regret that it has been unavoidably crowded out. It will, however, definitely appear next week.

Several important schemes were under discussion. The subject of an official organ for the W.R.A., for instance, was brought up, as also was that of valve rebates, and the difficult problem of the annual subscription figure.

*New Sales
Opportunities
for the
Trader.*

Adey.

For 1930-31 Adey Radio, Ltd., are concentrating upon their range of portable receivers, which are of somewhat unconventional design. They are claimed to utilise a new patent circuit, and each is controlled by a "key" at the top.

Three models are available. The 1-valve instrument, in a small suitcase, provides headphone reception, and sells at £3 17s. 6d., complete with phones, and ready for use. The two and 4-valve sets, retail at £8 15s. and £12 15s. respectively, each incorporating a Celestion speaker.

ADEY RADIO, LTD., 99, Mortimer Street, London, W.1.

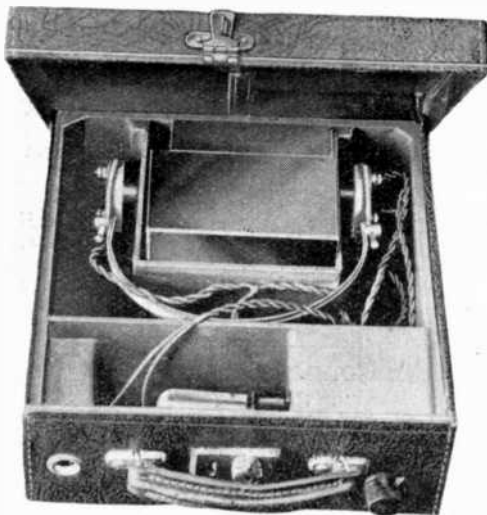
Automobile Accessories.

Two attractively priced receivers, both employing three valves, form the chief features of this firm's new programme.

The first of these, in an oak cabinet, will retail at 5 guineas: while a similar receiver contained, together with a speaker, in a large oak cabinet, is priced at £7 5s.

The other receiver which embodies an S.G. circuit, has a similar cabinet, and will retail at £6 5s., or complete with speaker at £8 5s.

AUTOMOBILE ACCESSORIES (BRISTOL), LTD., Clifton Terrace, Sion Road, Bedminster, Bristol.



The Adey 1-valve portable which utilises headphones for reception, and is priced, complete, at £3 17s. 6d.

85 Manufacturers Reveal THE AUTUMN

Baker.

A new addition to the range of Baker products is the 1930 Super model moving coil speaker, which is available in several types. It is in chassis form, and is fitted with a low resistance coil and a suitable input transformer as standard, although, a high resistance coil can be supplied.

The two A.C. mains models, the S.A.1 requiring 1 A at 9 V, and the S.A.2, 2A at 9 V, both incorporate mains transformers, Westinghouse metal rectifiers, and full smoothing equipment, and are listed at £7 12s. 6d., and £8 7s. 6d. respectively. A 6 V D.C. model is priced at £5, and the D.C. mains model at £5 5s. When high resistance coils are fitted, the prices are reduced by 10s. in each case.

BAKER'S SELHURST RADIO, 89, Selhurst Road London, S.E.25.

Bel-Canto.

Having confined themselves in past years to production on a fairly small scale, Bel-Canto are now manufacturing on a much larger scale than hitherto, and have made available several new lines.

First in importance, perhaps, is the radio-gramophone, which is an all-electric machine. Contained in a pedestal walnut cabinet, it has fretted grilles on all sides to eliminate box resonance. The front grille is covered by a pair of doors, while below it is a second pair of doors enclosing the record storage compartment. All controls are mounted at the top under the lid.

The circuit embodies two S.G. stages, detector and a super power output stage, with single dial control. There is a tone control regulating the pitch of reproduction. Incorporating an electric motor the Bel-Canto radio-gramophone sells at £75.

Numerous loud-speakers feature in the Bel-Canto programme, all utilising balanced armature units. Four models are available, the standard, concert, standard grand and concert grand, differing apparently only in size and price. In oak, mahogany or walnut, the standard model sells at £5 10s. the

concert, with a 14-inch cone, at £8, and the standard grand, with 16 inch cone, at £9 10s., in walnut only. The concert grand speaker is housed in an imposing walnut pedestal cabinet, and retails at £15.

A balanced armature speaker unit is also manufactured. Incorporating a cobalt steel magnet, it sells at 35s., while a



A new addition to the already comprehensive range of useful Belling-Lee accessories, the "Wanderfuse," which retails at 1s. 6d.

suitable chassis with a 12-inch cone lists at 20s. The price of a 14-inch cone chassis is 25s.

BEL-CANTO RADIO, LTD., Warple Way, The Vale, London, W.3.

Belling-Lee.

Two interesting additions to the range of Belling & Lee terminals and similar small but very essential lines are to be noted.

The first of these is a terminal mount, consisting of a neat bakelite moulding designed to take two terminals of any make, and particularly to accommodate the non-rotating ones manufactured by Belling & Lee. It can be used on the baseboard of a receiver, either on its back with the terminals vertical, or on its side with the terminals horizontal and protruding from the back of the cabinet. It may also be employed to mount terminals on a window ledge or on a wall. (Illustrated on page 162).

It is one hole fixing in one position, but in an alternative position two screws are required. The price is 8d.

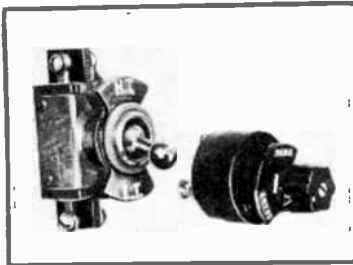
The other new line is the Belling-Lee "Wanderfuse." It is an insulated tube

their Plans and Products for RADIO MARKET

*Equipment
Lines and
Manufacturers'
Materials.*

of the radio apparatus which will make its it is not at present entirely comprehensive, it of note has been omitted it is due to the fact for general release. In compiling this review of materials and designs intended for manu- use.

about an inch and a quarter in length, with a wander plug pin projecting from one end, at right angles to its axis. The tube itself contains a 150 mA fuse. It is specially designed for use where the fuse is customarily placed in the H.T.—



Representative examples of new Bulgin switches. On the left is shown one of the toggle switches, while the switch on the right has a rotary action.

lead, and will lie flat on top of the H.T. battery. It is supplied in black or red.

The "Wanderfuse" can be fitted to any battery operated set without the use of tools and without altering the set in any way. The replacement fuses for the "Wander-fuse" are the standard types which Belling-Lee fit in all their other fuse holders. The price is 1s. 0d.

BELLING & LEE, LTD., 1, Queensway, Ponders End, Middlesex.

Benjamin.

A new type of rotary switch will be included in the coming Benjamin range in two forms, one a simple on-off switch and the other a double-pole double-throw switch. An important feature of this type is that the efficiency of the contact area is continually being improved by a burnishing action which takes place when the switch is operated. Another point is that the spindle is insulated, thus enabling the switch to be mounted on a metal panel.

The on-off switch is priced at 1s. 9d. with, and 1s. 6d. without terminals,

soldering tags being fitted in both cases, and the D.P.D.T. type, together with an indicating knob and reversible dial, will retail at 3s. 6d., with terminals. With soldering tags only, it is priced at 3s.

British Aluminium.

Many prominent radio manufacturers are supplied by the British Aluminium Co., Ltd., with aluminium for valve screens, boxes and other components. There are, of course, many advantages in using aluminium in the construction of radio sets, including lightness, durability and appearance. As in previous years, the firm will be pleased to quote for any size orders for aluminium in bulk. THE BRITISH ALUMINIUM CO., LTD., Adelaide House, King William Street, London, E.C.4.

Becol.

The usual "Becol" products are being continued as before, with the exception of the 4- and 6-contact coil formers and bases, which will be marketed this year in an improved form, together with several choke formers. The coil formers have smaller bases than those of the older type, and, as the contacts are now flush with the ebonite, easier handling is assured. Prices are greatly reduced, the former and base now selling at 7s. 6d. instead of 10s. 6d., and the former or base separately at 3s. 9d. each.

THE BRITISH EBONITE CO., LTD.,
Nightingale Road, London, W.7.

Brown.

As we have already announced, the Brown programme this year includes many new lines, besides most of the existing productions which are too well known to need mention here. An entirely new S.G. 4-valve portable, in a walnut cabinet of the transportable type takes first place among the new products. This lists, complete with large capacity batteries and valves, at 19 guineas.

The "Grosvenor" moving-coil speaker is another entirely new product. It is housed in a highly polished cabinet resting on a pedestal with four curved legs, and is fitted with a tone control. There are three models, the first, with a 6 V field priced at £17 17s., the second,

a permanent magnet model, at £20, and the third, for A.C. mains at £21.

Then there is the Brown moving coil movement, also in three types, which incorporates the well-known "Duplex" diaphragm. The model for use with 6-12 V accumulators is listed at 5 guineas, the A.C. mains model, complete, at £8 10s., and the permanent magnet model at £6 17s. 6d.

Another new speaker, the "Royal," incorporates a "Vee" unit and a "Duplex" diaphragm, and has a cabinet constructed on the same lines as the well-known "Sphinx" instrument. The price, in mahogany, is £12 10s.

Then comes the "Austral" speaker, first designed to meet the demand in Australia for a quality speaker at a low price. This is priced at £2 10s.

A most important new departure is the Brown No. 4 pick-up and arm, which is claimed to be the only pick-up constructed entirely without the use of rubber. It is designed to give correct track angle, and special provision is made to facilitate needle changing. The price is fixed at 3 guineas.

S. G. BROWN, LTD., Western Avenue, North Acton, London, W.3.

Bulgin.

New components and accessories—many of them not easily obtainable elsewhere—are to be marketed extensively



One of the most prominent of the Bel Canto lines, a radio-gramophone priced at £75.

by Bulgin and released on September 1st.

There will be several types of switch, nine wire wound resistances between 5,000 and 100,000 Ω , priced at 1s. to 2s. 9d., as well as a 5,000 Ω decoupling resistances for pentodes.

Among mains lines the flush mounting safety mains plug and socket at 3s. and the flat type mains connector for extension purposes at 2s., are noteworthy. There will be a 5-pin cable plug for A.C. valve-holders at 2s. 6d., and an A.C. valve adaptor which, plugged into 4-pin holders, will permit the conversion of a set to use with A.C. valves.

A component that should find increasing favour with modern sets is the enclosed panel light, which has one-hole fixing. It is to sell at 2s. 3d. Another ingenious light is the Bulgin turntable lamp. It performs the dual function of indicating when the gramophone amplifier is switched on, at the same time throwing a shaft of light on the record, enabling the needle to be placed in the first groove. This lamp will retail at 2s. 6d. In connection with gramophone work, another new line to be marketed will be a bakelite duplex needle cup, designed to contain new and used needles. For surface fitting, with concealed fixing screws, it will be available in mahogany or walnut bakelite.

Finally should be mentioned three other new Bulgin products, a single tubular fuseholder, some unique crocodile clips of new design, and some double grid-bias battery clips for fixing two G.B. batteries in a set. The latter will list at 9d. a pair. The clips will be available at 1s. 6d. a dozen, and will be produced with a bright copper finish or lead coated, for accumulators. They will be mounted on attractive showcards of three dozen if required.

A. F. BULGIN & CO., LTD., 9-11, Cursitor Street, London, E.C.4.

Burndept.

The type of mains unit that is incorporated in the Burndept series of "Universal Screened Five" receivers is now being marketed separately. It is an A.C. model, for 100-110 V, 200-210 V, 225-240 V, 40-100 cycle mains. The unit can be fixed to a baseboard if desired.

There are eight terminal tags for taking connections to a receiving set, and the H.T. tapping of 200 V gives 40 mA output. Another 180 V H.T. tapping delivers 5 mA. An adequate smoothing circuit

is incorporated, with a 200 H choke.

On the L.T. side an output of 4 A at 4 V is available for operating 4 V A.C. valves, though arrangements are included for the use of 6 V valves if desired. Two G.B. tapings of 3 V are incorporated, as well as 30, 35 and 40 V tapings.

A useful point about the Burndept mains unit is that separate rectifiers are utilised for H.T. and grid bias, obviating the possibility of interaction. A full wave valve rectifier is fitted for H.T., and a Westinghouse metal rectifier for the bias. There is, of course, a terminal for earthing the case of the unit.

BURNDIPT WIRELESS (1928), LTD., Blackheath, London, S.E.3.

Magnum.

The outstanding line by Burne-Jones is, without doubt, the new A.C. mains radio-gramophone. It is housed in an upright mahogany cabinet, and utilises a 3-valve SGP circuit driving a 16-inch cone speaker. The wave-ranges are 250-550 and 1,000-2,000 metres, tuned by ganged condensers. An outside aerial can be used, while the valves are of the S4VA, 354 and "Mazda" AC/PEN types. The total mains consumption, including that of the electric gramophone motor, is 35 W. The machine can be used on 100-120 V or 200-250 V, 40-100 cycle mains.

Next we come to the "Band Pass Four," for 100-120 V or 200-250 V, 40-100 cycle A.C. mains. Designed for range and selectivity, it utilises two S.G. stages following a tuned filter circuit. The four tuned circuits cover 250-550 and 1,000-2,000 metres, ganged condensers being used. Volume control is effected by adjusting the screen voltages. The four Mullard valves (two S4V, one 354 and 064) consume 38 W from the mains. The price is £30.

Two other mains sets, developed during the past few months, are the A.C. mains 2-valve receiver at £12 10s., and an A.C. 3-valve transportable, the price of which has not been fixed. Each covers long and medium waves, and they operate on the same voltages and periodicities as the "Band Pass Four." The 2-valve model, with Mullard 354 and 104 valves, consumes 15 W, and the 3-valve transportable, with S4VA, 354 and 104 valves, 20 W.

Various "Magnum" components have been withdrawn, while certain price



The Magnum 4-way ganging switch marketed at 4s. by Burne-Jones.

reductions have been made. Several new components have been introduced (many of which we have recently tested), such as a screening box at 6s., some fixed resistances, and 600 and 1,000 Ω decoupling resistances at 1s. 6d. each. There are also a grid-leak holder at 6d., 2, 3 and 4-way ganging switches at 3s., 3s. 6d. and 4s. respectively, and a new wire-wound potentiometer, available in resistance values of 5,000, 10,000, 25,000 or 50,000 Ω , and retailing at 7s. 6d. BURN-JONES & CO., LTD., 296, Borough High Street, London, S.E.1.

Camco.

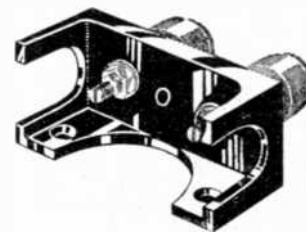
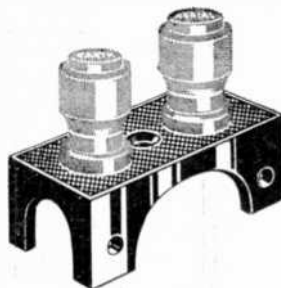
This year the Carrington Manufacturing Co., Ltd., are specializing in the manufacture of cabinets to suit modern tendencies. One of the foremost of these is the "Berkeley" radio-gramophone cabinet in quartered mahogany veneer or walnut, and another, the "Mayfair," is a pedestal cabinet for a moving coil speaker or speaker and chassis.

Another of the leading lines will be the "Waverley," a radio-gram cabinet to be priced at £5 10s. in oak, while another model will retail at £7 10s. This will be supplemented by speaker cabinets, a pedestal model at £3, the "Triumph" in an ebonized case with an oxidised silver front, at 12s. 6d., and a new pattern cabinet for a moving coil speaker which will retail at 38s. Also, there will be the "Master" cabinet, priced at £4 10s.

This firm are also specializing in "Camco" cabinets for Philips receivers, and besides the already well-known "2514" and "2511" cabinets, there will be two entirely new types which will house not only the sets, but gramophone motors and equipment as well. It is of interest to note, that in connection with these cabinets, the makers are



One of the foremost Magnum lines this year—the "Band Pass Four" receiver for all-A.C. operation.



Another new Belling-Lee line, a one-hole fixing twin terminal mount, designed for use with any make of terminal. This is described on page 160.

running a special advertising campaign on behalf of the dealer. In addition to the above-mentioned

pick-up is being supplied this year fitted to a well-designed arm, giving correct tracking, while the price has been reduced to £3 3s., including arm. A new model Celestion pick-up may appear in time for the Show, but this will be in addition to the Woodroffe. The Celestion Tiltatone tone compensator is being continued.

The latest Celestion radio-gramophone is to be known as the "Kingston," and retails at 55 guineas. It is all-electric operated, and on the radio side has two screened grid H.F. stages, with a special method of aerial coupling. There is only one tuning control. A moving coil speaker and special Celestion pick-up are fitted.

In addition, the already well-known Celestion Standard electric gramophone and radio-gramophones, and the Senior radio-gramophones, will be continued.

Some excellent new styles of cabinet are available.

Apart from all the above apparatus produced for ordinary retail sale, it should be remembered that Celestion supply large quantities of speakers specially intended for the use of manufacturers. Chassis models of all types and speakers in plain wooden cases to build into combined radio-gramophone and other similar instruments are listed by the company.

CELESTION, LTD., London Road, Kingston-on-Thames.

Chalgrove.

A new type of aerial tuner, known as the "Chalgrove" regenerative aerial tuning unit, has been introduced by Charles G. Chalkley, with the intention of overcoming the disadvantages associated with coil changing.

This is, in reality, a multi-tuning unit, for, by means of suitable wiring, it can be utilised in four different circuits, with

either magnetic or capacity controlled reaction. A wave-band of 250 to 2,000 metres is covered.

The tuner is single-layer wound with D.S.C. wire, on a cylindrical paxolin former, with an aperiodic coil at one end. Reaction is obtained by means of an adjustable coil rotating through 0-180 degs. and mounted at an angle of 45 degs. inside the main former.

The retail price is 13s., and a standard tuner, without the special aperiodic coupling coil, is available for use in direct coupled circuits at 11s. 6d.

CHARLES G. CHALKLEY, 6, Grove Street, Wellingborough.

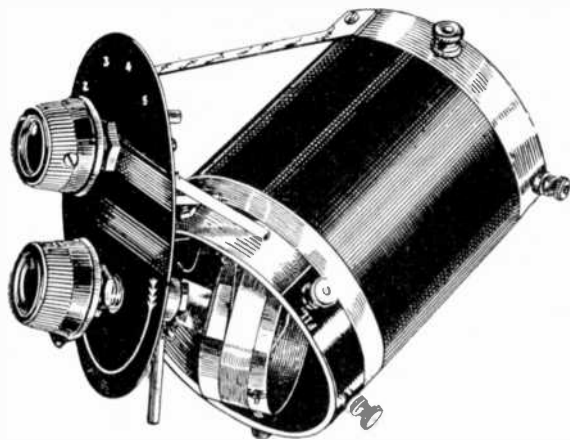
Exide.

The full range of Exide batteries for L.T. and H.T. supplies, together with several new departures in batteries, will be included in the programme of this firm. The first departure is marked by the introduction of jelly acid cells. To be known as the "Gel-Cel," this type will be marketed in a comprehensive range for portable set use, and practically duplicates the corresponding Exide free acid range.

Another outstanding feature is the new unspillable cell with liquid electrolyte. The container is of celluloid and has many refinements, including a specially moulded lid and a double shoe-type base of the same moulded material. Also, an improved Exide acid trap is incorporated, and the cell is so designed that when used in a portable receiver, the plates are completely immersed in acid in both the carrying and operating positions. This type, also, will be marketed in a comprehensive range.

Turning now to H.T. batteries, there is the XY10, a 10 V unit, which is designed for multi-valve receivers and amplifiers where current consumption is exceptionally heavy. These units are also available assembled together in sets of 60 V, in polished wood crates.

In the Exide L.T. accumulators, the usual distinctive features such as the



Charles G. Chalkley's "Chalgrove" regenerative aerial tuning unit, which incorporates a special aperiodic winding and retails at 13s.

lines, there will be many other pattern cabinets for manufacturers' use.

CARRINGTON MANUFACTURING CO., LTD., Camco Works, Sanderstead Road, South Croydon.

Celestion.

A number of new and improved Celestion speakers will be featured this year. The old C10 is withdrawn, and is replaced by the D10, in a high-class oak cabinet and with improved tone, at the retail price of £3. Similarly, the C12 is replaced by the D12 at £5 in oak and £5 7s. 6d. in mahogany. The Z25 is withdrawn, but the Z20 is retained, in a considerably improved cabinet, at £7 15s. in oak and £8 5s. in mahogany.

The D50 is an entirely new model in a handsome oak or mahogany cabinet at £8 and £8 8s. respectively. The tone of this is exceedingly good, judging from the sample we have heard, and approaches "moving coil" quality. A new type of unit (not an "inductor") is used.

The C14 and C24 models are being continued unchanged. The Celestrola moving coil speaker is withdrawn, but a new Celestion M.C. speaker is at present going through the research department.

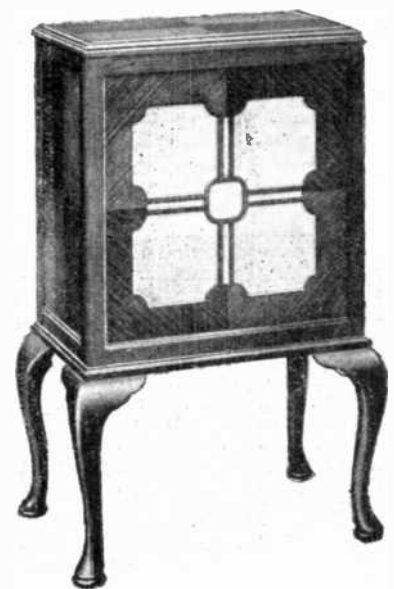
The well-known Celestion-Woodroffe



The Celestion model D10 speaker, in an oak cabinet, replacing the old C10.



Another entirely new Celestion speaker, the D50, which incorporates a new type of unit, and retails at £8 in oak.



One of Carrington's cabinets—the "Mayfair"—designed specially to house a moving coil speaker.

non-interchangeable red and blue terminals, will be incorporated, and with the 10 V H.T. units, a new pattern connector of antimonial lead is now given free.

CHLORIDE ELECTRICAL STORAGE CO., LTD., Clifton Junction, Nr. Manchester.



Here is shown the very latest in "Exide" accumulators—the "Gel-Cel," which has jellied acid electrolyte and is mentioned on page 163.

Atlas.

This year all the "Atlas" mains units at present on the market will be continued, these, as is well known, being in a very comprehensive range varying in prices from £1 17s. 6d. for the model D.C.18 to £12 17s. 6d. for the A.C.50. In addition, a new combined H.T. unit and L.T. trickle charger, type A.C.188, will make its appearance. This has one maximum and two variable H.T. tappings, and a maximum output of 25 mA at 150 V, while the trickle charger gives 5 A at 2, 4 or 6 V. It incorporates Westinghouse metal rectifiers for both H.T. and L.T. rectification, and a switch is provided for changing over from H.T. to L.T. charging. Suitable for 200/250 V A.C., the A.C.188 will retail at £6.

All the other "Atlas" lines now on the market will also be continued, these, of course, including mains transformers, L.F. chokes and the well-known "Rheograd," which is priced at 8s. 6d.
H. CLARKE & CO. (M/C), Ltd., Atlas Works, Old Trafford, Manchester.

Ariel.

Pride of place is being given by Classic to two suitcase portable receivers. One of these has already been placed on the market, and, known as the "Ariel Pigmy," retails at 18 guineas. A turntable costs 5s. extra, and a waterproof cover 12s. 6d. It embodies a 4-valve S.G. circuit, and weighs 24 lbs., in a dark blue Fabrikoid case. Obtainable on H.P., it is guaranteed for twelve months.

The second model is rather similar to the "Classic Pigmy," and is a super range 4-valve S.G. instrument. In an antique case, it sells at 20 guineas.

CLASSIC RADIO & GRAMOPHONE CO., LTD., 25, Eccleston Street, London, S.W.1.

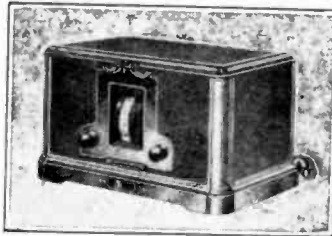
Ekco.

Comprehensive details of the programme of E. K. Cole, Ltd., were given last week, but we will give details of all of the new products.

First come the two new mains sets, the Models 312 and 313. These strike an

entirely new note as far as outward appearance is concerned and have cases of tenacit bakelite in three shades of dark jade, dark mahogany and medium oak.

Model 312 is a 2-valve receiver incorporating a detector and a pentode, and can be used with an indoor aerial up to 25 miles from a Regional station. Tuning is controlled by a single drum dial working in an escutcheon plate at the centre of the front of the cabinet. The reaction knob, and the combined selectivity and volume control are also



Some idea of the appearance of the new "Ekco" receivers with tenacit bakelite cases is given by this view of the model 312.

mounted on the escutcheon plate. Provision is made for a pick-up, and the set is available for A.C. or D.C. operation at £14 10s.

The 3-valve Model 313 is constructed on similar lines, and incorporates an SGP circuit. The cabinet is almost identical in external appearance, the tuning dial, worked by a knob, being viewed through a small aperture at the top of the central escutcheon. Several interesting features are included, one being that the output impedance can be adjusted to suit different speakers. A gramophone attachment is fitted, and sockets are provided for connection to the field of an M.C. speaker. This receiver is also available for A.C. or D.C. mains, and is priced at £22 10s.

A new "Ekco" departure is the manufacture of speakers, of which the firm are producing two models strikingly simple and modern in appearance, and built into moulded cases in the same shades and of the same bakelite material as the sets. Model L.S.1 is a cone speaker employing a balanced armature unit, and is specially designed for use with the receiver 312. It sells at £4 10s. The model L.S.2 has the same general appearance, but is a moving-coil speaker designed for use with either the 312 or 313 receiver. The current for the field is taken from the mains, and a tapped input transformer is incorporated. For A.C. operation the speaker is listed at £11 and for D.C. at £8 12s. 6d. Both speakers are arranged to stand on top of the sets.



Another new "Ekco" line—the model ACV all-power unit specially designed for the use of manufacturers.

In the field of mains units it is announced that the all-power units, C.1A. D.C. and C.2A. D.C., will be deleted, and also the following H.T. models: 1F10 D.C., 4T60 A.C., 5T60 D.C., and 5T60 A.C. To replace the all-power unit C.2A. D.C., the C.2B. D.C. will be introduced. This gives a maximum output of 4 A L.T., 25 mA H.T. with four voltage tappings, and five G.B. tappings up to 12 V. The price is £6 17s. 6d.

A new H.T. unit to be introduced is the 1V.30 for D.C. and A.C. mains. This has four tappings with a total output of 30 mA, and retails at £2 19s. 6d. for D.C. and £5 15s. for A.C.

The model 4A60 at £8 10s. replaces the 4T60 A.C., and gives an output of 60 mA with three voltage tappings.

Next comes the rectifier unit, which, up to the present, has incorporated a valve, but in its new form makes use of a Westinghouse rectifier. Known as the RA 20 instead of the R 20 it will sell at £3 10s. 6d.

All receivers and mains units are made for use with voltages from 200 to 250 D.C., and A.C. 200-250 and 100-120 V, 40 to 100 cycles.

Later in the season we understand that a radio-gramophone will be introduced. It will probably be available in two models, the first being a pedestal cabinet instrument incorporating an electric motor and M.C. speaker together with a set similar to the model 313. The second radio-gram will have a 312 set and a spring motor.

E. K. COLE, LTD., "Ekco" Works, Southend-on-Sea.

Colvern.

In addition to their already extensive range of components, Colvern are listing a complete range of fixed resistances and a new dual range coil for the new season.

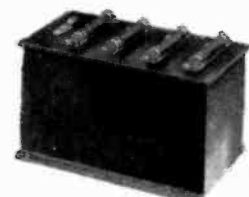
The resistances are wound on glass formers and will be found suitable for almost any purpose. Resistances with values of from 1,000 O to 45,000 O are priced at 2s. 6d., and from 50,000 O to 100,000 O at 3s. 6d., these prices including bases for horizontal mounting.

The new tuning coil, type R.M.2, has a small rotor fitted inside the main former, which, when operated, varies the selectivity. Besides being rotatable this aperiodic coil can be moved, as a whole, in a vertical direction, thus enabling a very fine adjustment to be made. The price of the coil is 8s. 6d.

COLVERN, LTD., Mawneys Road, Romford Essex.

Cossor.

A. C. Cossor, Ltd., are among the manufacturers who announce that their



For use with the A.C.V.—Ekco's new "control unit."

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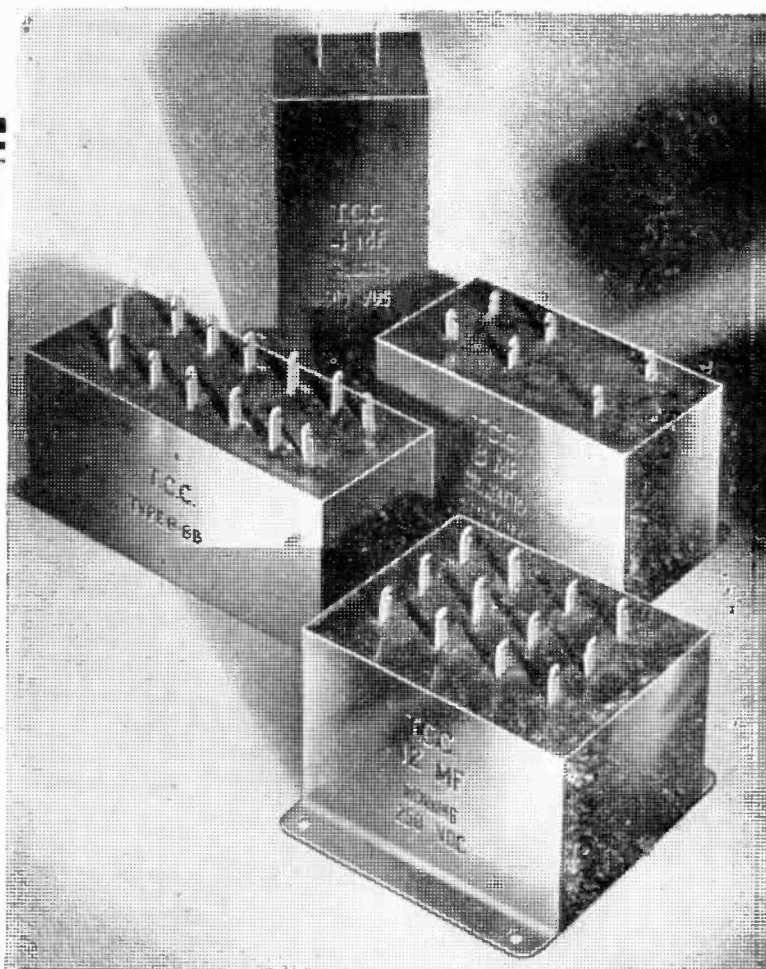
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T.C.C.
CONDENSERS

ADVERTISEMENT OF THE TELEGRAPH CONDENSER
CO., LTD., WALES FARM ROAD, N. ACTON

products for the 1930-31 season are to be put on the market considerably in advance of the Radio Exhibition.

One of the most important of their new lines is the "Empire Melody Maker" kit, details of which were given in our issue of July 26th. The circuit is of the 3-valve screened-grid type, and the price, complete with cabinet and valves, is £6 17s. 6d.

It should be stressed that the new kit is designed rather to supplement the "Melody Maker" at present on the market, and the trade can rest assured that A. C. Cossor will offer them every assistance in pushing the sale of the 1929-30 instrument.

Another new set just announced comprises two S.G., detector and output valve. The set will be factory-built, and available in two types, either for mains or battery drive. At the moment the prices are not available.

A further production is a 4-valve S.G. kit. For the mains type a special mains unit will be supplied, while a battery kit will also be marketed. Prices are not yet available.

A new Cossor component is, as we have already announced, their L.F. transformer with stalloy core, the price being 12s. 6d.

In addition, the Cossor 2-valve battery and mains receivers selling at £5 10s. and £10 10s. respectively, the "Melody Maker" as already mentioned, and the complete range of valves, mains units, and transformers will be marketed during the season as at the present time.

A. C. COSSOR, LTD., Cossor House, Highbury Grove, London, N.5.

Donotone.

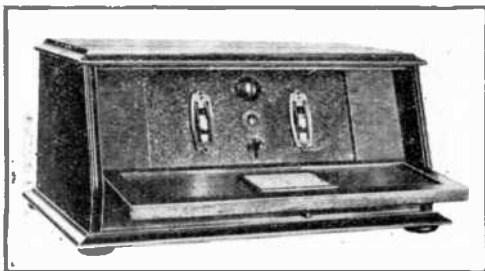
One of the chief features of the Donotone new season's programme is undoubtedly the "Ideal" speaker which is priced at 6 guineas. This is contained in a circular cabinet, 18 ins. in diameter, with a neat fabric-backed grille at the front. It is fitted with tuned gongs, an exclusive feature of the Donotone, a patented composition diaphragm, and a unit of the same type as those fitted into the more expensive speakers.

In addition, there is the Super Donotone at £10 10s., and the Donogram, a radio-gramophone, at 7s. guineas.

DONOTONE LOUD-SPEAKERS, 40, Farnival Street, London, E.C.4.

Dubilier.

In addition to the comprehensive range of condensers and resistances, Dubilier announce the introduction of a 2-valve receiver and three new radio-gramophones for the new season. The



This is the handsome Dubilier S.G. 3-valve receiver available for either A.C. or D.C. mains operation at £25.

2-valve all-electric receiver is primarily designed for the reception of the Regional stations, and is capable of giving ample volume with good quality reproduction. It incorporates an indirectly heated detector, and a power output valve, and has provision for a pick-up. It is for



The "Ideal" speaker, shown here is the most prominent line in the Donotone programme. It is priced at £6 6s.

A.C. mains operation only, and, in a walnut cabinet, lists at £15.

Here it should be mentioned that the 3-valve all-electric receiver introduced last year has this year been considerably improved in general construction and external appearance, although the S.G. circuit employed is identical. This model is being made both for A.C. and D.C. mains operation.

The first of the new radio-gramophones is a 2-valve all-A.C. model incorporating a detector and a power stage. An electric motor and a balanced armature speaker unit are fitted as standard, and the price, with a walnut pedestal cabinet, is £42.

The 3-valve radio-gram is also for A.C. mains operation only, and employs a circuit incorporating an S.G. H.F. stage, a detector and a power stage. A moving coil speaker is fitted into the cabinet, and here again an electric motor is utilised for the gramophone. The price, with a walnut cabinet, is £60.

The third of the radio-gramophones is a 4-valve all-A.C. model, which incorporates an S.G. H.F. stage, a detector, and a two-stage power amplifier. A moving coil speaker capable of handling the large output is fitted. In a walnut pedestal cabinet, this model retails at £80.

It is of interest to note that the Dubilier paper dielectric condensers are being greatly improved in external appearance, so as to make them more attractive for the trade to handle. Also, during the season, Dubilier intend to introduce a range of electrolytic condensers, details of which will be published in these columns at the earliest possible moment.

DUBILIER OONDENSER CO. (1925), Ltd., Ducon Works, Victoria Road, London, W.3.

Dulcetto.

As we have already announced, several entirely new acoustic gramophones, together with new radio apparatus, are included in the "Dulcetto" programme for the new season. Of the gramophones, the Nos. 870 and 790 are undoubtedly the most distinctive, and are made attractive by their modern designed console cabinets, which are available in either oak or mahogany. Both are fitted with double-spring motors, and 12 in. turntables, which, by the way, are standardised throughout the range of "Dulcetto" pedestal and console models. The new "Dulcetto" shielded duraluminium soundbox and frictionless hermetic pivotal curved tone-arm are also fitted to both, in conjunction with a special exponential amplifier. The 870 in oak lists at 14 guineas, while the 790, also in oak, is priced as low as 8½ guineas, the corresponding models in mahogany being the 871 at 15 guineas, and the 791 at 9 guineas.

Then there is the 840, another console model in oak, which sells at 10½ guineas, and the 841, its mahogany counterpart, priced at 11½ guineas. A cheaper gramophone is the 720, in an oak console cabinet with an open fret. This is listed at 6½ guineas, while the 721, in mahogany, retails at 7 guineas. Then comes the 680, the cheapest pedestal model gramophone in the Dulcetto range. This is priced at £5 19s. 6d., and the mahogany model, the 681, lists at 6 guineas.

In addition to the above mentioned gramophones, several others, with prices ranging from 9½ to 12 guineas will also be on the market, and it should be noted that these, together with the last three instruments mentioned, have the same general specifications as regards motors, turntables and acoustic systems, as the models 790 and 870.

Portable gramophones are represented by the model "M" at £2 12s. 6d., the model "K," with an extra long internal amplifier at £3 5s., and the "Senior" machine at £3 19s. 6d. The latter is the same as the "K," but is equipped with a double-spring motor.



Designed for power amplification, the Dulcetto "Junior" gramophone amplifier makes a handsome piece of furniture.

Turning now to the electric side, there is the new "Dulcetto Junior" electric amplifier which has been produced to meet the demand for an amplifier of the same high quality, but with a smaller output and a lower price than the well-known "Dulcetto" amplifier, type W50. It is housed in a pedestal cabinet and has only one turntable and pick-up as compared with the two of the larger model. Complete with one cabinet moving-coil speaker, it lists at 75 guineas, an additional speaker being priced at 12 guineas. As would be expected, the model W50, with twin turntables and pick-ups, is being continued and is priced at 120 guineas.

In the smaller class, there is an all-electric radio-gramophone, which incorporates an S.G. H.F. stage, a detector, and two paralleled pentode output valves, operating a special laboratory tested moving-coil speaker. It is housed in a console type cabinet of mahogany, and is priced, for D.C. mains operation, at £75, and for A.C. at £80.

Finally, the "Dulcetto" moving-coil speakers, including the chassis model reviewed in these columns a short while ago, will be continued.

DULCETTO-POLYPHON LTD., 2 and 3, Newman Street, London, W.1.

Dunham.

The new models to be marketed by Dunhams, Ltd., will include a 3-valve



This year all the new Dunham sets are self-contained. Here we show one of them.

S.G. and pentode all-electric non-aerial set. The instrument will be entirely enclosed in a walnut cabinet, with a self-contained frame aerial, and is stated by the makers to be capable of receiving up to 40 stations in any part of the country. A ball-bearing turntable is fitted; price not yet fixed.

A second model will be a 4-valve S.G. suitcase set. Easy tuning will be a feature, and again a ball-bearing turntable will be fitted. The set, which is battery driven, will be priced at 20 guineas. The panel arrangements are made so that both circuits can be tuned simultaneously. There will also be a 3-valve S.G. battery model in oak cabinet, including compartment for all batteries and valves; price not yet fixed.

The 5-valve portable has been improved. A super power stage is now fitted as standard, as well as new type H.F.

transformers. All valves are now completely enclosed, while a new balanced armature speaker is incorporated. Price 17 guineas. The 5-valve transportable, also at 17 guineas, has been similarly improved. In addition, a new type grille is fitted.

The mains unit to be introduced this season has a metal fireproof screening case, and it incorporates a Westinghouse metal rectifier, and is complete with automatic grid-bias, and variable H.T. tapings. It is made for use on 200-240 A.C. mains; price not yet fixed.

DUNHAMS, LTD., Bellerophon Works, New Wharf Road, London, N.1.

Godwinex.

As would be expected, many new mains units, for both A.C. and D.C. are being produced by J. Dyson & Co., Ltd., for the new season.

For A.C. mains operation, there is type A.H. with a maximum output of 50 mA at 120 V. This has one variable and the fixed tapings, and full-wave valve rectification is employed. Price £5 10s. Then there is type A with a smaller output—20 mA at 120 V—and only two tapings, and type A.S.V. giving an output of 25 mA at 120 V. These are priced at £3 7s. 6d. and £4 7s. 6d. respectively, and both utilise Westinghouse half-wave metal rectifiers.

For portables, there are two new A.C. units, one the P.W., an H.T. unit priced at £4 17s. 6d., and the other, which also incorporates an L.T. trickle charger, priced at £5 17s. 6d.

Also of interest is a new all-power unit, which gives an H.T. output of 20 mA at 120 V, an L.T. output of $\frac{1}{2}$ A, and G.B. at 1 $\frac{1}{2}$, 3, 4 $\frac{1}{2}$ and 9 V. This is priced at 10 guineas, with Westinghouse metal rectification throughout.

Two L.T. mains units will also make their appearance. The L.T.H. with an output of $\frac{1}{2}$ A at 2, 4 or 6 V, is priced at £6 6s., and the L.T.P. with an output of 1 A at 2, 4 or 6 V, lists at £7 7s. Both of these incorporate Westinghouse metal rectifiers.

Then there are two G.B. units for A.C. mains. Type G.B.S. with tapings at 1 $\frac{1}{2}$, 3, 4 $\frac{1}{2}$ and 9 V will retail at 12s. 6d., while type G.B.L. with six tapings, ranging from 1 $\frac{1}{2}$ V to 25 V, lists at 15s. 6d.

Finally, on the A.C. side, there is a rectifier unit, incorporating Westinghouse full-wave metal rectification. This, known as type A.W.R., has an output of 50 mA at 200 V, and will retail at £4 10s.

Turning now to D.C., there are two additions in the form of types D.S.H. and D.S.V. H.T. mains units. Both give a maximum output of 15 mA at 150 V, and the former, with two fixed tapings, is priced at £1 15s., while the D.S.V. has a variable tapping and is priced at £1 17s. 6d.

The above new items, together with many of the lines at present on the market, will constitute the chief features of the Dyson programme.

J. DYSON & CO., LTD., 5-7, Godwin Street, Bradford.

Eagle (Chakophone).

Several entirely new "Chakophone" products are being marketed by the Eagle Engineering Co., Ltd., for the 1930-31 season. Foremost of these is the radio-

gramophone which is available for A.C. or D.C. mains or for battery operation. It is, in reality, a table model, although it is normally supplied in conjunction with a specially made pedestal. A moving coil speaker is incorporated, and, to eliminate box resonance, the cabinet has grilles on all sides. The price of each model, complete with stand, is 35 guineas.

Included in the "Senior Two" series of receivers are several models, of similar appearance, for battery and mains operation. Each receiver is contained in an oak cabinet with a sloping control panel at the front, there being space at the bottom for the accommodation of the batteries or mains unit. The circuit incorporates a detector, and a transformer coupled output stage, magnetic reaction being utilised. In the case of set "A" an ordinary power valve is employed, and the price is £6 5s., while with a pentode output valve the price is £6 17s. 6d. The battery receivers are also supplied complete with batteries and speakers. Set "A" complete is priced at £9 11s., while set "B," complete with a double capacity H.T. battery, and speaker retails at £10 14s. 6d. The "Senior Two" receiver for all-A.C. operation lists at £13, and for D.C. at the same price.

The "Warwick" 5-valve portable receiver is housed in a walnut cabinet, and incorporates two H.F. stages, a detector and two L.F. stages with a super power valve in the last stage. It weighs 34 lbs. and is priced at £16 16s. complete.

Another portable, the "Screened Grid 4," is of the suitcase type, and has a rexine covered case finished in antique leather. This is listed at 17 guineas.

Then, in the "All-in" series of receivers, there are the 2- and 3-valve types. These are both housed in oak cabinets of the upright transportable type, and, as the name implies, are completely self-contained. The 2-valve receiver with a detector and pentode, is priced at £9 9s., while the 3-valve model, with a detector and two transformer coupled stages, lists at £11.

The new "Chakophone-Colassi" speakers are now ready, and will be marketed in two models. The "Popular" model, which matches in design the "Senior Two," retails at 45s., while the De Luxe model lists at £12.

The well-known De Luxe aerial tuner is being continued this year in a greatly improved form, and is priced at 10s. 6d., while the range of "Eagle" dry H.T. batteries has been increased, and prices vary from 1s. 6d. for the 9 V G.B. battery to the 108 V battery at 14s., all, of course, with standard capacity cells.

EAGLE ENGINEERING CO., LTD., Eagle Works, Warwick.

Edison Bell.

All mains receivers and radio-gramophones will feature most prominently in the new season's programme of Edison Bell, Ltd., there being four new sets—including a transportable—three radio-grams, and an electric gramophone.

The first of the receivers employs two valves, a detector and a pentode, and is housed in a compact, well-finished metal case, which also contains the mains equipment supplying H.T., L.T. and G.B. The standard model, for use with

A.C. mains is priced at £14 4s.

Next comes a 3-valve receiver incorporating a circuit employing a detector, one R.C. stage, and a transformer coupled output stage. It is built into an attractive walnut cabinet together with a specially designed cone speaker and mains unit. Here again the standard model is for use with 200-240 V A.C., and costs £19 19s.

Another 3-valve receiver incorporates an S.G. circuit with a super pentode. It is contained in a metal cabinet with louver front, and has two illuminated slow motion dials for controlling the tuning. Provision is made for the connection of a pick-up, and the price, including mains equipment for 200-240 V A.C., is £25 10s.

The new all-mains transportable to make its appearance, employs an S.G. H.F. stage, a detector, and two transformer coupled stages with a pentode output valve. It is entirely self-contained in a light oak cabinet. The all-electric model is priced at £21 and the battery driven model will retail at £14.

Turning to the radio-gramophones, there is the No. 1 Junior model with a 2-valve detector and pentode circuit. The speaker is a specially designed unit, and is fed from a choke capacity filter circuit with a suitable A.C. resistance. The price is fixed at £42 for use on A.C.

The No. 2 junior employs a selective circuit with an S.G. H.F. stage, a transformer-coupled detector, an R.C. L.F. stage, and a transformer-coupled output stage. It is housed in a console type oak cabinet and is equipped with a cone-speaker. An Edison Bell pick-up and arm, and a double-spring motor are fitted for gramophone reproduction, while there is also an independent acoustic system. The price is £37 10s. for A.C.

In the larger class, the senior all-mains radio-gram employs a 4-valve S.G. circuit and is completely housed in a cabinet, which also contains space for the storing of records. A moving coil speaker is utilised, and the pick-up, specially designed, works in conjunction with a scratch filter. The mains unit is built as a separate unit and is capable of delivering 75 mA at 400 V. In oak it costs £75.

There is also at £50 a new all-electric gramophone giving 2½ W output, while the only other new Edison Bell product is a pick-up, with a device which enables the volume to be controlled by the variation of the magnetic flux. The price is 42s. in a moulded bakelite case.

EDISON BELL, LTD., *Glengall Road, London, S.E.15.*

Ediswan.

Although several important items in the present list are being deleted, Ediswan announce a number of attractive new products—including a 2 V super-power valve—for the new season, together with several reductions in the prices of existing apparatus.

Of the new lines, the valve undoubtedly deserves first mention. This, as stated above, is a 2 V super-power valve, to be known as the P 220A. It consumes only 2 A filament current, and has the extraordinarily low A.C. resistance of 1,850, which, with the amplification factor of 0.5 gives a mutual conductance of 3.5 mA/V. The retail price is 13s 6d.

We learn that stocks are now available.

Another innovation is a new type pick-up, which is to be priced at £3 10s., with a 16 in. tone-arm. Also for the gramophone is an electric motor at the exceptionally low price of 3 guineas.

A range of fixed condensers in moulded cases, is also to be marketed in values from .0001 μF to .01 μF. These have test voltages of the order of 500 V and will have prices ranging from 1s. for the smallest type to 4s. for .01 μF type.

For the new season, the "Ediswan" A.C. transportable has been re-designed and, in its new form, will be housed in a new type of cabinet, as will be the 3-valve battery operated receiver, which, incidentally, has been increased in price to £9 18s. 6d.

EDISON SWAN ELECTRIC CO., LTD.,
1a, Newman Street, London, W.1.

Ferranti.

A new model of the Ferranti 3-valve A.C. mains set will be introduced. This will not supersede the present standard model available in walnut, mahogany and oak cabinets, but will supplement it. It will be substantially the same set, but instead of being housed in the wood cabinets, it will be housed in a stout metal frame covered in leatherette, three standard colours being available—blue, brown and grey. Other colours may be had, if desired, but they will not be stock lines and the delivery of special colours will be seven days. The price of this set will be £24 list, inclusive of valves and royalties.

In addition to the above, two 2-valve sets will be launched. One of these will be a standard detector and one L.F. stage, with a super-power valve in the output stage, coupled with a 7/1 AF6 transformer. It is of the dual wavelength type.

The other 2-valve receiver is specially designed for the Regional stations. This model is fitted with coils accurately tuned to each transmission of Brookman's Park, and either transmission is obtainable merely by the turning of a switch.

Both these sets will be mounted in metal cases, covered in leatherette, similar to the 3-valve mentioned above. Price £16. All these receivers will be available well before the Olympia Show; and it should be noted that all the sets have a substantially similar appearance to the model shown on this page.

The Ferranti dynamic speaker, which

has already made its appearance, will be available in a metal case, and the special feature of this is its low price, £12 10s.

A new A.C. transformer, type SV4, for 200-240 V, 40/100 cycles mains will be on sale at the price of £1 16s. It is fitted with four outputs: H.T. of 230 V, 35 A; 4 V 2 A; 4 V 1 A; 6 V ½ A.

A new 2 μF fixed condenser, type C5, at 7s., for 500 V A.C. or 750 V D.C. mains, will be available. A similar condenser, of 4 μF, will be priced at 7s. 6d. for 350 V A.C. or 500 V D.C. mains.

We learn that Ferranti have a new range of charts due for the coming season. **FERRANTI, LTD.,** *Hollinwood, Lancs.*

Sparta.

New high tension and low tension accumulators figure among the most recent Fuller products. The H.T. accumulator, known as Type QMHG, a 10 V unit, has a rated capacity of 10,000 mA.H, and a charge rate of .5 A. Its dimensions are 8 ins. by 2½ ins. by 6¼ ins. high, and the weight 11¼ lbs. when charged. The price is 11s. 6d.

The L.T. battery is termed the Type RPG, and is a 2 V model with a capacity of 120 AH. Measuring 5 ins. by 4½ ins. by 7½ ins., it weighs 14 lbs. when charged, and lists at 14s. It is rather similar to the Type LDG, but has twice the capacity.

Although details of any new unspillable accumulators to be marketed have not yet been decided upon, it is probable that some new types will make their appearance.

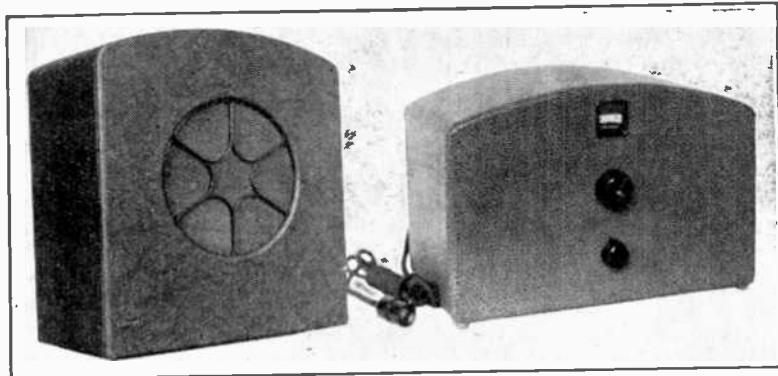
Most of the standard Fuller accumulators—H.T. and L.T.—will be continued. **FULLER ACCUMULATOR CO. (1926), LTD.,** *Woodland Works, Chadwell Heath, Essex.*

Lotus.

For the next season Garnett Whiteley are adding to their present range of components a new type dial for ganged condensers. They will also be manufacturing their power rectifier units and all-mains units as at present.

In addition to the existing types of receivers, they will be producing new console models and sloping face models. It is also announced that, from September 1st, the prices of all the sets, and also of some of the components, will be revised. The hire-purchase terms will also be altered, and the new arrangements should prove attractive both to the public and the trade.

GARNETT WHITELEY & CO., LTD.,
Lotus Works, Mill Lane, Liverpool.



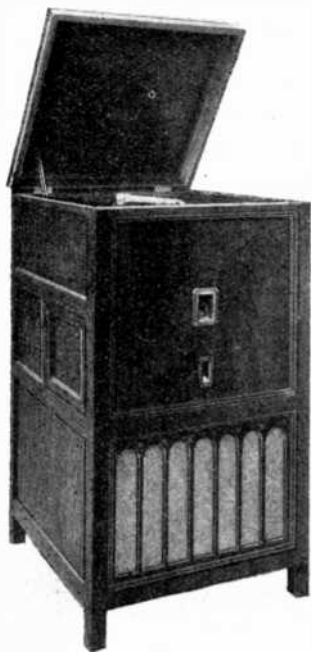
On the left, we show the Ferranti cabinet model dynamic speaker, while on the right, the new 2-valve set in a fabric covered cabinet will be seen.

Gecophone.

Once again the name "Music Magnet" figures among the most important of the lines to be marketed by the General Electric Co., Ltd., but this year the "Osram Music Magnet" kit set utilises a 4-valve circuit—a departure from the practice of previous seasons. Two S.G. stages with triple ganged tuning are incorporated, with a power output valve. The price, inclusive of valves, is £11 15s. The consumption of this receiver is of the order of 17-18 mA, and, as this is a rather heavy demand for ordinary dry batteries, the G.E.C. have designed a special triple capacity battery for use with the set. It is known as the "Magnet" 60 V triple capacity wireless battery, and will be priced at 13s. 6d.

Mention should now be made of the two mains driven complete sets that the G.E.C. are marketing. Both are for A.C. mains only. We will deal first with the 3-valve set, which employs an SGP circuit. The cabinet is of wood, with front panel carried out in dull gold, roughened in such a manner as to give a very effective representation of metal. An escutcheon, through which the two tuning dials are viewed, is mounted in the centre of the panel, with the two control knobs on either side. The remainder of the controls are at the sides of the cabinet. Two variable, solid-dielectric condensers are used for series aerial volume and selectivity control. This receiver, complete with valves and mains equipment, will sell at £18.

Of the "de luxe" class, the "Gecophone" 4-valve all-A.C. receiver next claims attention. Here, again, a distinctive style of cabinet is employed, and is carried out in solid walnut. The tuning controls are viewed through an aperture in a peculiarly shaped escutcheon



Another very handsome "Gecophone" product for the new season—the 4-valve all-electric radio-gramophone.

plate recessed obliquely at the top. The other controls, as in the other receivers, are mounted at the sides of the cabinet. The circuit incorporates two S.G. stages, detector, and an auto-transformer coupled super-power stage. The price is £30.

Another interesting new product is the 4-valve all-A.C. radio-gramophone, incorporating a G.E.C. M.C. speaker. The receiver embodies the chassis of the 4-valve A.C. receiver, details of which are given above. For reception from local or very powerful stations, a special non-directional device in the form of an aluminium plate under the cabinet is provided, no aerial or earth being required. Another unique feature is the scratch filter, which can be switched in or out of circuit as desired. An induction motor is fitted as standard, and the price is £70.

The G.E.C. have taken up the manufacture of the inductor dynamic type of speaker, of which they will market two models, a cabinet instrument in oak at £5 10s., and a chassis model at £3 10s.

In addition to all the above new products many of those at present on the market will be continued. The baffle-model M.C. speaker will be priced at £14 complete with mains equipment, and the and the chassis model at £19 19s.

GENERAL ELECTRIC CO., LTD.,
Magnet House, Kingsway, London, W.C.2.

Amplion.

It is noteworthy that during the year Graham Amplion, Ltd., have released their various new lines as they have been developed, and, therefore, it is not probable that there will be any "surprise packets" to make their appearance at Olympia next month, all the lines we describe below constituting their programme.

Last April saw the release of most of the new Amplion instruments, outstanding among which is the Cabinet Radio, type A.C. 50, which is a combination of the senior "Lion" speaker and the metal-cased A.C. mains set. The cabinet, in many ways similar to that of the "Lion" cabinet speaker, is of the pedestal type and has a hinged lid enclosing the sloping panel of the receiver on the top of the instrument. The price in oak is £65, or £66 in mahogany.

Quite a stir was created by the release, in May, of an Amplion portable—an entirely new departure for the firm. It is a suitcase set, utilising a 4-valve SGP circuit, with two H.F. stages. The panel is remarkably "clean" in appearance, and carries only the three drum dials and change-over switch. It is priced at £24 15s. More recently—in July to be exact—there was announced the introduction of the standard mains set in oak cabinet form, to meet the desires of those who prefer wood to the standard metal container of the set. In wood it costs £55.

The latest product is the Amplion 2-valve all-mains set, of very compact design. A straight detector and pentode circuit is employed, and there are two controls—reaction and tuning—with two switches, on-off and wave-change. A Westinghouse rectifier is incorporated, while there is provision for a pick-up. The set has been so designed that a walnut

AB6 cone speaker can be stood on the top of it with pleasing appearance. The inclusive price is £15 15s.

Another forthcoming set is the "Two S.G. Cabinet-Radio" which is self-contained with speaker and aerial. It utilises the portable receiver circuit, but is A.C. mains driven. A trickle charger is fitted, coming into operation when the set is switched off. The self-contained aerial can be turned through 90° without moving the set, while a new type of speaker is incorporated. This instrument will be



The new G.E.C., 3-valve all-mains receiver, housed in a cabinet of striking design, and priced at £18.

available in cabinet form on a plinth for standing on a table or bookcase, and also as a pedestal model. The price is not yet fixed.

Among their range of speakers are to be noted various additions. A "Two-Guinea" cabinet cone instrument has been produced, while two balanced armature speakers, incorporating power type drive units, with a 14-inch cone, figure in the series. Known as the AB41 (oak £5 15s. and mahogany £6 6s.) and the AB45 (oak £6 15s. and mahogany £7 7s.) these speakers are contained in cabinets similar to the "Lion" instruments.

Before concluding, we should mention the price reductions of the "Lion" demonstration speakers. The L14 chassis now retails at £4 10s. and the L14P at £6. GRAHAM AMPLION, Ltd., 26, Savile Row, London, W.1.

Gripso.

Prominent among the new Gripso lines to be ready in September, are three entirely new indicating switches with fool-proof spring-gripped contacts. The first of these is of the two-point type, and has a flush-fitting dial which is available with a bronze or nickel-plated finish. The price will be 1s. 9d. The second is a three-point switch identical in construction to the above, and will be priced at 2s., while the third, a Q.M.B. two-point switch, has a slightly different construction and will retail at 2s. 6d.

Another useful accessory to make its appearance is a neat grid bias battery clip, which has a nickel plated finish and will be priced at 4½d. packed in a carton.

Also many of the indicating switches at present on the market will be continued at reduced prices, foremost among these being the "Standard" single push-pull switch of the type first introduced. This retails at 1s. 6d. and a similar "Super" switch at 1s. 9d.

GRIPSO CO., 32, Victoria Street, London, S.W.1.

Grosvenor.

Coincident with their establishment as a "public" company (to which special reference is made in our Business Items columns this week), Grosvenor are marketing for the coming season an extensive range of entirely new dry batteries, H.T.,



To be marketed by the H.S.P. Wireless Co., at 22 guineas, this five-valve "suit-case" portable receiver employs an unconventional method of balancing the two S.G. valves.

grid bias and flashlamp types. There will be numerous ranges: The "Standard" (Brown Line); the high capacity (Blue Line); the popular-priced Red Line; the super capacity, with a "double Blue Line" for double capacity and "triple Blue Line" for triple capacity; a special range for portable sets; seven G.B. batteries (Brown Line); and four types of flashlamp battery.

It is impossible to detail every new battery to be marketed as over fifty types are being manufactured, so it will suffice if we quote representative examples, one of which is shown on p. 177.

Taking a 99 V battery; in the standard range this sells at 14s. 6d., in the high capacity series at 18s., and as a "Red Line" battery (popular type) at 11s. 6d. A double capacity 99 V battery sells at 30s., and in triple capacity form the price is 32s. 6d.

Specially constructed batteries, we understand, can be produced to fit all portable receivers. Among the well-known sets utilising Grosvenor batteries may be mentioned the 1930 Burndept portable, the McMichael "Super Range," and Rolls Caydon and Ultra instruments.

The prices of the grid bias batteries range from 4s. 9d. for a 24 V unit to 10d. for a 4½ V battery, while those of the flashlamp batteries, all of which are 4½ V types, from 5d. to 1s.

GROSVENOR ELECTRIC BATTERIES, LTD., 2-3, White Street, London, E.C.2.

H.S.P.

In addition to the portables made by the H.S.P. Wireless Co., namely, the 5-valve model at 17 guineas, the 5-valve popular model at 18 guineas, the S.G.4 at 19 guineas, and the 5-valve super range at 22 guineas, the firm are marketing a new portable comprising 2 S.G., detector, and pentode. A Celestion speaker is fitted, and the valves, which are in the front of the instrument, are housed in

separate aluminium compartments. Two aerials are used, and this is only one of the many unique features which are incorporated in the set, among which may be mentioned the unconventional method of balancing the two S.G. valves, while supplying full voltage to them. Both S.G. valves are tuned, and reaction is applied to the detector. The set will be known as the Supertwin Four, and will retail at 22 guineas complete.

The firm also intend to market a 3-valve set selling, without accessories, at £6 2s. 6d.

Another H.S.P. receiver is the 3-valve all-mains set in solid walnut case, selling at 21 guineas. The battery model is priced at 10 guineas.

H.S.P. WIRELESS CO., Langford Works, Weston-super-Mare.

Halcyon.

Striking evidence of the present day trend in radio is afforded by the 1930-31 programme of the Halcyon Wireless Co., Ltd., all of whose new lines are all-mains driven. These comprise a table radio-gramophone, among the latest additions to the few such instruments on the market, and a 4-valve transportable.

Dealing first with the "radio-gram," this is built into a walnut table cabinet with a hinged lid and a fretted grille at the front concealing an M.C. loud-speaker. A 4-valve screened grid receiver is utilised, working in conjunction with a frame aerial wound inside the lid. All the controls are grouped at the front of the motor board, which, in addition, carries the pick-up and the electrically-driven turntable. The complete instrument is sold under a guarantee of one year at the inclusive price of 55 guineas. It is available for A.C. or D.C. mains and may also be obtained on H.P. terms. A pedestal cabinet which matches the set, and provides storage space for records is listed at 10 guineas extra.

The all-mains transportable is also a 4-valve instrument. An interesting point is that it can be sold to customers who have not mains available, since the compartment containing the mains equipment can equally well accommodate batteries.

The cabinet, of figured walnut, houses an Air Chrome speaker behind a neatly fretted grille under the control panel of the receiver. There are two tuning controls, a volume control, and an ac ombined wave-change and "off" switch on the panel, which is concealed when not in use by a hinged flap.

The circuit comprises an S.G. H.F. stage, a detector, and two L.F. amplifying stages. When equipped for mains working, the transportable incorporates a special Halcyon mains unit, or, alternatively, it is available with two 60 V H.T. batteries, two 6 V G.B. batteries, and a 2 V jelly-electrolyte L.T. accumulator. Fully equipped for A.C. or D.C. mains, the receiver is priced at 40 guineas; with batteries and mains unit, 42 guineas, and with batteries only, 32 guineas. Hire purchase terms can be arranged.

HALCYON WIRELESS CO., LTD., 72, Newman Street, London, W.1.

Harlie.

A new line to be introduced by the

firm is an electric gramophone induction motor, model 32, for A.C. mains of all voltages. It has no reduction gear, but is fitted with a patented speed control with indicator. A metal drilling template is supplied for speedy and accurate assembling, and the price, with a year's guarantee, is £3 17s. 6d.

The motor will also be available complete with Harlie gramophone pick-up (parallel tracking) and automatic stop. The price of this, mounted in a metal stand, is 7 gns. It is shown on p. 177. In oak cabinet the price is £7 12s. 6d.

The new Harlie automatic stop for electric motors is easy to fit and simple to operate. It is known as model 33, and it sells at 7s. 6d.

The gramophone pick-up is now obtainable with chromium-plated finish, and there are other improvements. Prices: £1 7s. 6d.; with tone arm and volume control, £1 17s. 0d.; with one arm, £1 15s. 0d.; tone arm and volume control only, 9s. 6d.; tone arm only, 6s. 9d.

Other products for the new season's market include the model 20 gramophone pick-up adaptor at 2s. 3d., the 5-pin rigid baseboard valve-holder (model 17), price 9d.; and the manufacturers' model 5-pin valve holder (model 19), price 6d.

HARLIE BROS., (EDMONTON), LTD., Balham Rd., Lr. Edmonton, London, N.9.

Blue Spot.

The model 88 Blue Spot pick-up and carrying arm were brought into this country some time ago, and one of the earliest models was tested in our laboratory. As a result of certain suggestions we put forward, it has since been modified, and is now being offered to the trade in its final form. The price is £1 15s. complete.

In addition, there are four new cabinet speakers embodying the 66K and 66R units on which we reported favourably some time ago. These speakers are priced as follows: 41K, £2 10s.; 51R, £4 4s.; 71R, £4 15s.; 29R, £6 6s.

F. A. HUGHES & CO., LTD., 204-6, Gt. Portland Street, London, W.1.



Described on the previous page, the new Amplion 2-valve all-mains receiver [is shown here with an A.B.6 speaker.

Hellesen.

Important price reductions on Hellesen batteries have just been announced, and the new retail prices of the most popular types are given below, when they differ from previous prices.

GRID BIAS TYPES.

Standard capacity: 9 V WIRAY 1s. 9d., 15 V WIRIS 3s., 22½ V WITAL 4s. 6d.; 25½ V WIFEM 4s. 9d.
Treble capacity: 4½ V KOLAT 1s. 9d.

H.T. TYPES.

Standard capacity: 15 V WIRUS 2s. 9d., 22½ V WITAL 4s., 30 V WIROT 5s., 36 V WIRIT 6s. 6d., 45 V WIPYT 7s. 6d., 54 V WISUM 9s., 60 V WIRIN 9s. 9d., 72 V WILES 11s. 9d., 90 V WIVOX 14s. 9d., 99 V WIRUP 16s., 108 V WISOL 17s. 6d., 120 V WISYP 19s. 6d.

Double capacity: 30 V POROT 8s. 6d., 36 V PORIT 10s., 45 V POPYT 12s. 6d., 54 V POSUM 15s., 60 V PORIN 16s. 6d., 72 V POTES 20s., 90 V POPOX 25s., 99 V PORUP 27s. 6d., 108 V POSOL 30s., 120 V POSYP 33s.

Treble capacity: 30 V KOLOT 9s. 9d., 36 V KOLIT 11s. 9d., 45 V KOHOR 14s. 6d., 54 V KOLUM 17s. 6d., 72 V KOLES 23s. 6d., 90 V KOLOX 29s. 6d., 99 V KOLUP 32s., 108 V KOLOS 35s., 120 V KOSYP 39s.

Many reductions also come into operation on the other Hellesen batteries. Omission of any particular type in the above list means that the price remains unchanged. It does not indicate that the battery is no longer marketed.

A. H. HUNT, LTD., Tunstall Road, Croydon, Surrey.

Red Diamond.

Many of the components that the Jewel Pen Co., Ltd., have marketed in the past are being continued this year—among them, of course, the permanent crystal detector as used in the crystal receivers supplied to the blind under the Wireless for the Blind Fund.

RD49 and RD47, 2-point and 3-point switches respectively, are new products priced at 1s. 3d. and 1s. 6d. These are of particular interest, since, we understand, they will be specified in constructional charts issued by Ferranti, Ltd.

JEWEL PEN CO., LTD., 21-22, Gt. Sutton Street, London, E.C.1.



Simplicity of control is the keynote in the design of this 2-valve all A.C. receiver to be marketed by Kolster-Brandes.

K.-B.

In our August 9th issue, we were able to give full descriptions of all the new Kolster-Brandes products which will be completed in time to be exhibited at the



This is the striking K.-B. 4-valve "transportable" receiver, which incorporates a moving coil speaker.

forthcoming Show, but no prices were to hand at the time of going to press.

The K.B.232 cabinet cone speaker, incorporates an electro-magnetic unit while the other speaker, of the permanent magnet class, will be available in a walnut cabinet, and also in chassis form. The prices will include a triple ratio input transformer.

The first of the new receivers is a simple and inexpensive 2-valve all-A.C. model incorporating a detector and a pentode output valve. It is illustrated on this page.

Next comes the all-A.C. 4-valve transportable receiver, which is housed in a bureau type cabinet incorporating an electro-dynamic and a frame aerial. This is capable of an undistorted output of 2 W.

Another new K.-B. development is the 5-valve all-A.C. receiver with two S.G. valves, a detector and two transformer coupled L.F. stages, the last of which gives an output of 2½ W. It is built in chassis form and housed in a table type cabinet.

Following this receiver is a 5-valve radio-gramophone which embodies the same type of circuit, and is built into a massive walnut bureau cabinet. This instrument is equipped with only one pick-up and turntable and is normally intended for ordinary home use.

An even larger radio-gramophone with dual turntables, suitable for public entertainments is also to be introduced. Two sections are embodied, the first, the receiver, employing two S.G. valves and a detector, and the second the two-stage power amplifier, has two super-power valves in the output stage, which are capable of an undistorted output of 6 W.

In addition to the above new lines, there are the instruments at present on the market, which will be continued.

KOLTSEY - BRANDES, LTD., Cray Works, Sidcup, Kent.

Silver Ghost.

An entirely new Lamplugh product in the form of the "Silver Ghost" inductor dynamic speaker will be among the chief lines of the firm in 1930-31.

It is built on the well-known Farrand "Inductor" principle of construction, and therefore possesses neither field nor moving coil, the required magnetic field being provided by means of a permanent magnet. The moving coil is superseded by an iron armature which moves in a plane parallel to the pole pieces. In chassis form the speaker sells at £3 10s., while the cabinet model retails at £6 10s.

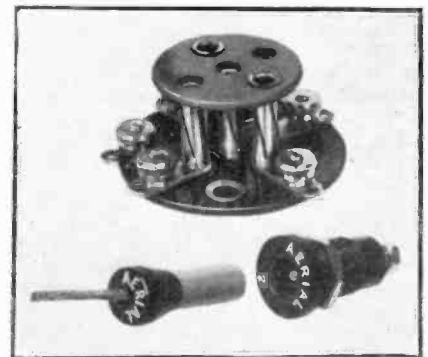
Among receivers to be continued is the "Popular Three," which is completely enclosed, with the valves on a platform at the rear. The price is £7 5s. The "Silver Ghost" S.G. 3-valve pedestal receiver will be marketed as an all-mains set this year, for A.C. only. Incorporating an "Inductor" speaker, it sells at £27, including valves and royalties. A table type is to be made available at £21.

S. A. LAMPLUGH, LTD., Kings Road, Tyseley, Birmingham.

Clix.

There are three important features in the new "Clix" programme which should be noted. In the first place, the additional price of ¼d. per unit which has hitherto been applicable to "Clix" specialities with engraved insulators will be discontinued, and the same retail prices will apply, irrespective of whether the insulators are engraved or plain. Secondly, an improved principle of resilience for plugs will be embodied in the new spring-screw wander plugs and all other "Clix" resilient plugs. In the same way, a new principle of resilience for sockets is being embodied in the new "All-in" terminal, the valve-holder, and the range of special resilient sockets.

The chief of the entirely new products is undoubtedly the "All-in" terminal which, when in use, is completely insulated from the panel. It is made in two parts, the body, of a moulded insulating material in which a solid pin is recessed, and the flex portion, which is really one of the new resilient sockets shrouded with



Above is shown the new valve-holder incorporating the "Clix" resilient sockets, while below, the two parts of the well insulated "All-in" terminals will be seen.

Get ALL the New Lines from HOUGHTONS

ONE ORDER
ONE ACCOUNT
ONE PAYMENT

SAVES TIME
SAVES TROUBLE
SAVES MONEY

Exceptional Demonstration Facilities for You and Your
Customers. Widespread FREE DELIVERY SERVICE.

HOUGHTONS

The National Wholesalers

[ENSIGN, LIMITED]

HIGH HOLBORN · LONDON · W.C.1
GLASGOW · MANCHESTER · LEEDS · NOTTINGHAM · SWANSEA · EXETER

STAND No. 10, NATIONAL RADIO EXHIBITION, OLYMPIA, September 19th to 27th.

LAMPLUGH

A WONDERFUL RANGE-

A "SILVER GHOST" and it's ENTIRELY BRITISH!



Manufactured under licence FARRAND & LEKTOPHONE Patents.

The New
LAMPLUGH
INDUCTOR
SPEAKER
Definitely
Supersedes
the Moving Coil

This is the latest conception of the Inductor principle, invented by the American radio pioneer, Farrand, and is as great a step forward over present known types of speakers—whether balanced armature or moving coil—as the original cone was over the horn type. It possesses all the advantages of a moving-coil speaker, has a better response at the lower frequencies, and has none of the disadvantages associated with the M.C. type.

ADVANTAGES.

There is no moving coil to pick up field current.
There is no field excitation coil, therefore no introduction of hum from that source.
There is no heat generated.
Requires no Rectifier, Transformer, Smoothing Condenser associated with Moving-coil Speakers on A.C. operated sets.
Only a quarter the weight of a M.C. Speaker.

There is nothing to get out of order; it is beautifully finished and of robust construction.

SET MANUFACTURERS

will realise at once the enormous saving in cost that the Lamplugh Inductor Dynamic offers without sacrifice in performance—which is indistinguishable from that of the finest M.C. Speaker. It must not be confused with the many Balanced Armature Movements on the market at the moment designed to give Moving-coil effect by artificial methods.

Chassis Complete £3:16
Cabinet Model - £6:10

**NOW
READY**
FOR IMMEDIATE
DELIVERY
**EXCEPTIONAL
DISCOUNTS TO
TRADERS**
& Set Manufacturers

LAMPLUGH



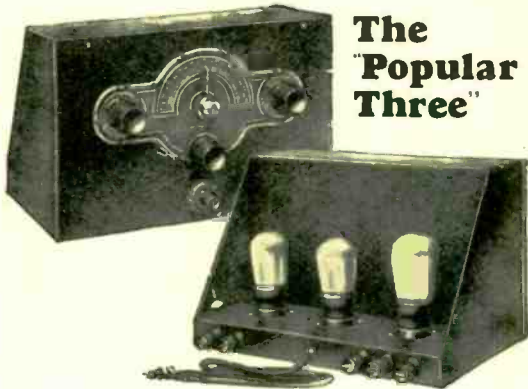
**INDUCTOR
DYNAMIC
SPEAKER**

NATURALLY—the Best!

RADIO for 1931 -EXCEPTIONAL PROFITS

Lamplugh Radio has been world-famous ever since Wireless reception has been a practical and commercial proposition. There's a comprehensive range of reliable sets, speakers and components—including battery and all-mains models—H.T. Eliminators—Power Units, etc.—to meet the needs of every class of radio buyer—backed by consistent advertising and a generous supply of literature, window bills, etc.

The Sets illustrated are new models for release Sept. 1st.



The "Popular Three"

Completely enclosed—thereby eliminating dust and minimising the possibility of damage. Ready to be fitted into any cabinet or can be used without if desired. The new model is fitted with a highly efficient "Wave-trap," which makes "Tuning" extremely simple. Price complete, including Valves and Royalties.

£7 - 5 - 0



The "Silver Ghost" All-Mains Screened Grid 3 "A.C." Model

A set giving wonderful long range reception with ample volume. Tuning is a revelation—quality is unsurpassed. Built on an entirely new principle of chassis construction, making it practically "foolproof." Supplied in two models:—TABLE TYPE "A.C." S.G.3 including all Valves and Royalties £21 0 0 "CONSOLE" MODEL "A.C." S.G.3, incorporating the new Lamplugh Inductor Speaker—including all Valves and Royalties £27

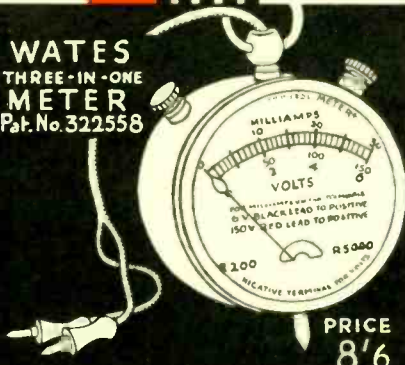
LAMPLUGH SILVER GHOST RADIO

S. A. LAMPLUGH LIMITED
KINGS ROAD - TYSELEY - BIRMINGHAM

SEND FOR FULL PARTICULARS & TERMS TO-DAY!

THE MONEY

**WATES
THREE-IN-ONE
METER**
Pat. No. 322558

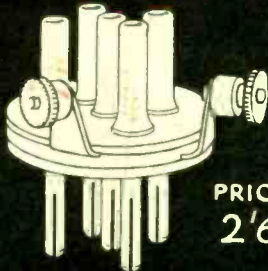


PRICE
8'6

Readings.
Volts 0-6 for
L.T. Volts 0-150
for H.T. M.A.
0-30 for H.T.
consumption, re-
sistance 5,000
Ohms. Wates
Panel Mounting
Meter same
readings as
above but
with plug and
socket bridge for
mounting on
panel. A popular
Seller at 13/9.
Wates Jewelled
Bearing Milliam-
pere Meter 0-25
M.A., 9/6. 0-50
M.A., 9/6.

3 MORE WATES LIGHTNING SELLERS

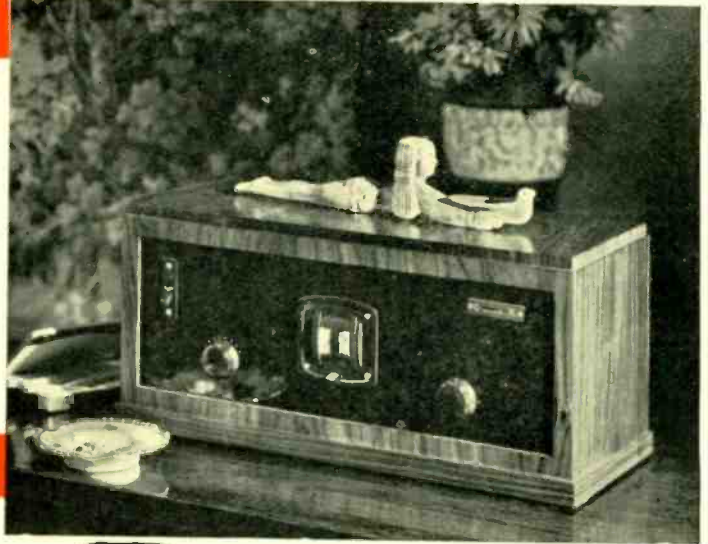
Last season saw all records broken in high average sales throughout the season by the Wates three-in-one Meter, and later, the Wates Double-Cone Chassis. This season, the popularity of these and other Wates lines will be greatly increased and the new "Polyscope" Pick-up and the "Test Plug" cannot fail to enjoy a large and steady demand because of their unique features obtainable only in these patented devices.



PRICE
2'6

WATES TEST PLUG
FOR VALVES Pat. applied for

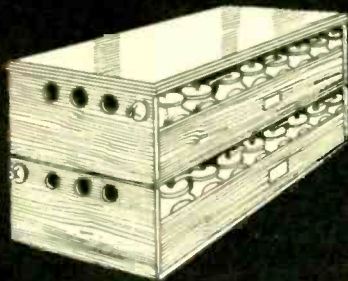
A new line with a big sale. Accurately tests anode current consumption. Simply inserted in valve sockets and valve is placed in test plug. Two terminals provided for connecting to a milliammeter. Designed for 4 or 5 pin valves.



The Wates A.C. Mains "4" is a set of definitely superlative performance, attractively finished in polished wood cabinet and at a price which challenges every other all-electric set on the market. Every trader should make a point of trying out this set—it is sold under a unique H.P. scheme of Cash Profits. The finance is done by us—you take cash profits. Full details sent on request.

Ask for Illustrated Catalogue describing the set, the handsome pedestal loud speaker and the Wates Radio-Gramophone.

WATES STANDARD BATTERY



This well-known Battery is a steady and consistent seller. The "cartridge" refills make replacement of the elements a quick and simple operation. Thousands of satisfied users. A line you should always stock. See list for prices.

WATES • RADIO

The Standard Battery Co.
(Dept. W.T.),

Telephone :—

MAKERS of 1931



**WATES
DOUBLE CONE
CHASSIS**
Pat. No. 309214

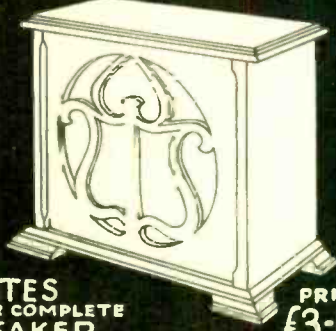
PRICES from 11'6

Introduced at the end of last season, this line was an instantaneous success. Supported by extensive advertising, the Wates Double Cone Chassis is the only chassis you should stock. Imitations have come, but public demand is for the genuine and original Wates Fully patented.

The new range includes the wonderful 20" model incorporating the Wates 20" Double Cone Chassis. The finest value in quality speakers on the market. 20" Super Model:

In Oak, £4 10 0.
In Mah., £4 15 0.

Star Model:
In Oak, £3 10 0.
In Mah., £3 15 0.



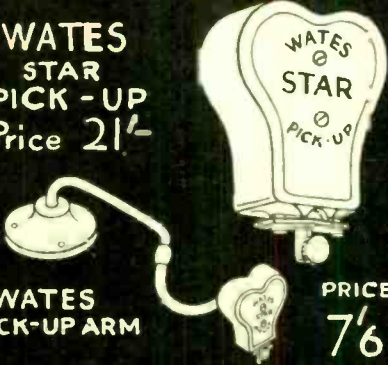
**WATES
STAR COMPLETE
SPEAKER**

PRICE
£3-10

Make sure of your supplies by ordering now; vigorous advertising will again be your assurance of ready demand, and the generous trade terms form a "bread and butter" minimum of profits that you can absolutely depend upon.

Ask now for particulars of our generous "Cash Profits for You" scheme and fully descriptive leaflets illustrating and explaining the complete range of Wates products.


Finished in oxydised Copper, a particularly smart and remarkably efficient Pick-up. D.C. resistance 1,200 Ohms, Impedance at 1,000 cycles is 10,000 Ohms. Fully guaranteed and supplied with adaptor to fit any type of tone arm.



**WATES
STAR
PICK-UP**
Price 21'6

**WATES
PICK-UP ARM**

PRICE
7'6



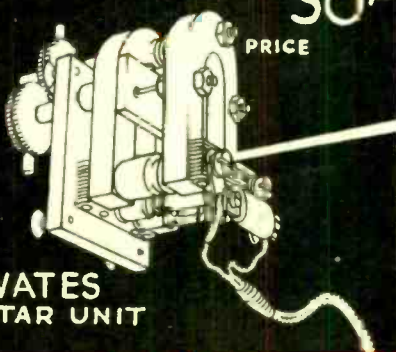
WATES POLYSCOPE
Pat. applied for

PRICE
31'

This new line will equal the wonderful sales of the Wates Meter. It measures resistances from 50/12,000 Ohms. Valve filaments for breakage. Insulation of Condensers, short circuits, etc., etc. An indispensable instrument that can be used with any style of 3 in one meter. Dry Batteries for same, 41d.

Reduced in price to 30/-, this Unit is the highest quality and best value obtainable. Comparative tests demonstrate its unapproachable superiority.

A big line for 1930-1931.



**WATES
STAR UNIT**

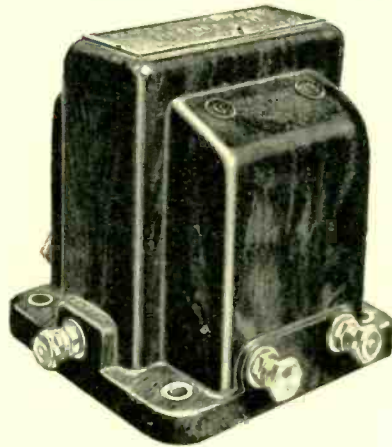
PRICE
30'6

• PRODUCTS

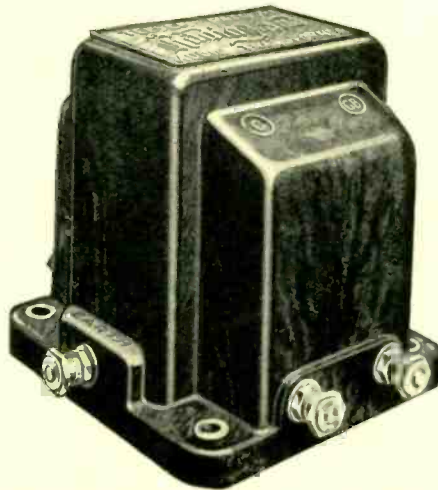
184-188 Shaftesbury Avenue,
London, W.C.2.
Temple Bar 6195

M.B.

—AND NOW TO —and



TELSEN "RADIOGRAND" TRANSFORMER shrouded in Genuine Bakelite Mouldings with improvements in the Windings and Core, fitted with earth terminal. Ratios 5-1 and 3-1. Price 12/6 each.

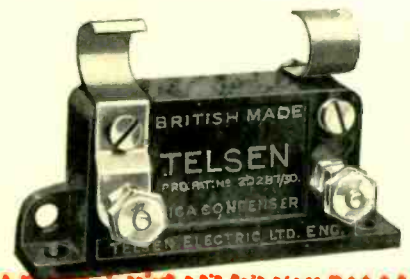


TELSEN 7-1 SUPER RATIO "RADIOGRAND" TRANSFORMER shrouded in Genuine Bakelite Mouldings with improvements in the Windings and Core, fitted with earth terminal. Price 17/8 each.

TELSEN

COMPONENTS

RECENT additions to the famous Telsen Range of Radio Components — Incorporating astounding New Features — will place before the Radio Dealer a new and enlarged channel of business this coming Season. The already famous range of Telsen Transformers will embody improvements in design of the Windings and Core, in addition to which, each model will be Shrouded in Genuine Bakelite Mouldings and fitted with Earth Terminals.



TELSEN (MICA) CONDENSERS made in capacities up to .001 mfd, Prov. Pat. No. 20287/30, supplied complete with Patent Grid Leak Clips to facilitate series or parallel connection, can be mounted upright or flat, tested on 500 volts, Genuine Bakelite Mouldings. Price 1/- each.

MORE BUSINESS PROFIT

THE complete range of Telsen Components includes H.F. Chokes, Fixed (Mica) Condensers, Valve Holders, Grid Leaks and Variable Condensers (Bakelite Dielectric); these Components in many cases are manufactured under Telsen Patents and in every case are made with Genuine Bakelite Mouldings.

Meet the demand which there will be this Season by stocking and selling Telsen Components. They are entirely British—Radio's Choice—for Better Radio Reception.

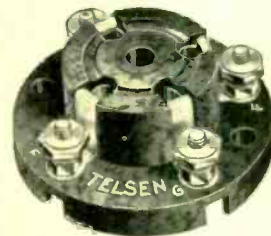


TELSEN H.F. CHOKES designed to cover the whole wave-band range—from 18 to 4,000 metres, extremely low self-capacity. Inductance 150,000 microhenries; resistance 100 ohms. Price 2/6 each.



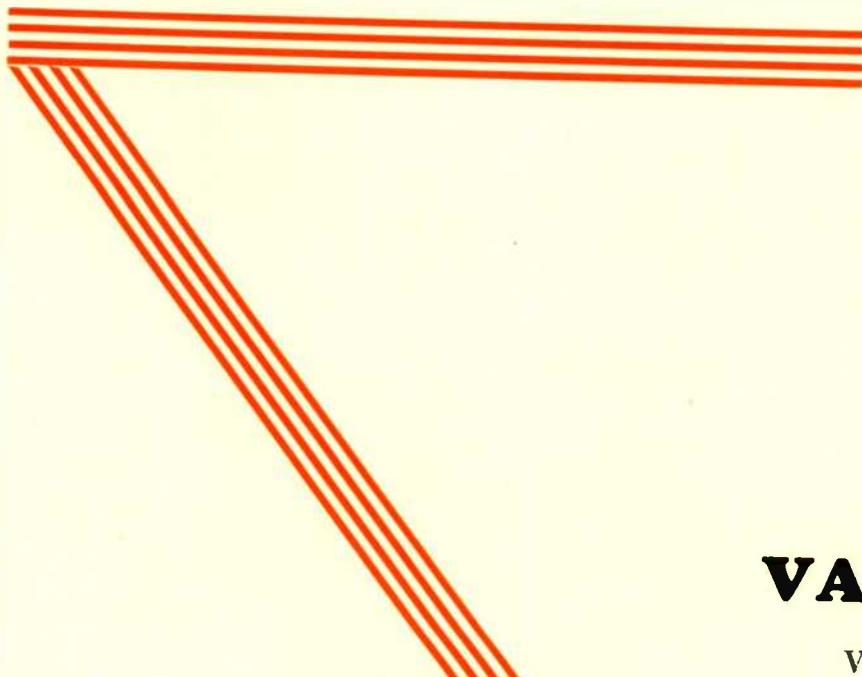
TELSEN "ACE" TRANSFORMER shrouded in Genuine Bakelite Mouldings with improvements in the Windings and Core, fitted with earth terminal. Ratios 5:1 and 3:1. Price 8/6

TELSEN VALVE HOLDERS. Prov. Pat. No. 20286/30. An entirely new design in Valve Holders embodying patent metal spring contacts, allowing the valve to be inserted or withdrawn with an easy sliding movement. Low capacity, Self-locating, and made in Genuine Bakelite Mouldings. Price 1/- each.



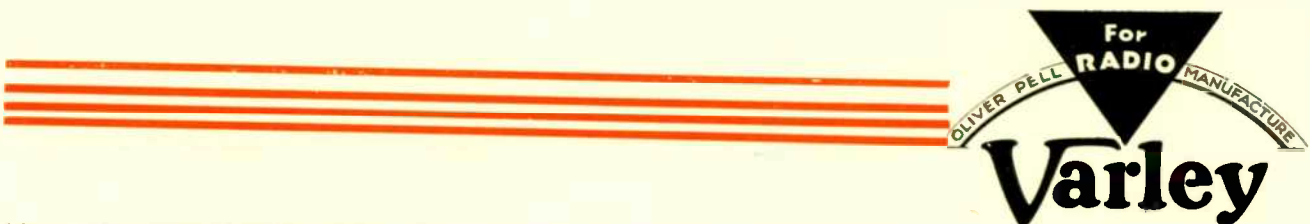
TELSEN VARIABLE CONDENSERS (BAKELITE DIELECTRIC). All vanes are insulated with Bakelite which eliminates the possibility of a short circuit between the moving and fixed vanes. Designed for use as a reaction condenser or neutralising condenser where large capacity is necessary. Made in capacities .00015, .0003, .0005, one-hole fixing for panel mounting. Price 3/- each.

TELSEN COMPONENTS


VARLEY
ASSURED
OF
VARLEY HIRE

Varley have made their name famous for quality: quality of design, quality of manufacture, quality of performance.

Now on this foundation of quality—backed up by their attractive new Hire Purchase Plan—Varley are preparing for bigger and bigger markets. In their newly extended factory large scale manufacture is building up stocks of Varley All-Electric


VARLEY SETS EASIER TO BUY—


VARLEY

SUCCESS

NEW

PURCHASE PLAN

Receivers and Radio-Gramophones—soon to meet the demand which Varley's new Hire Purchase Plan assured.

There's an immensely profitable season ahead of Varley—take advantage of it.

Have you returned the Application Card attached to our Hire Purchase Facilities Folder, asking for supply of Proposal Cards, etc?



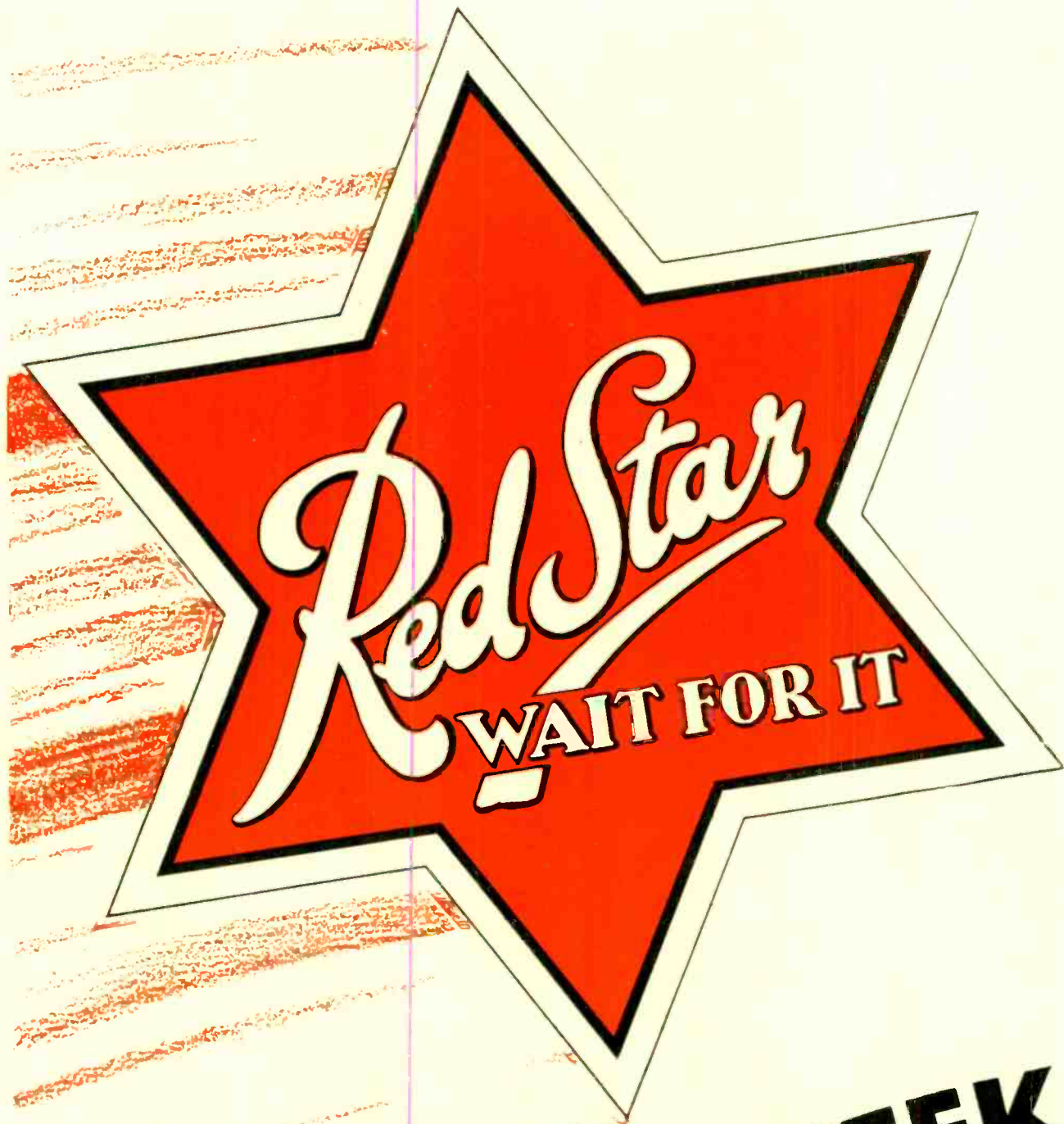
MORE PROFITABLE TO SELL!



RADIO FOR EVERYBODY!



COMING



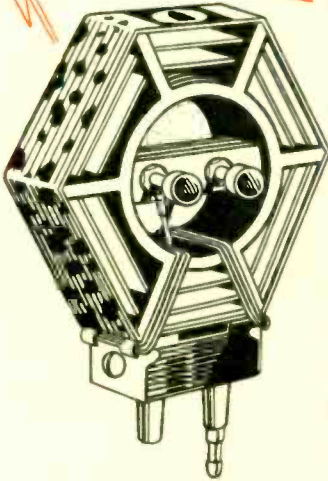
**The World's Wonder
Radio Receivers—
the Sets with Vario-
Screening Dual Detec-
tion and Twin-Tap
Coupling**

Full Details :

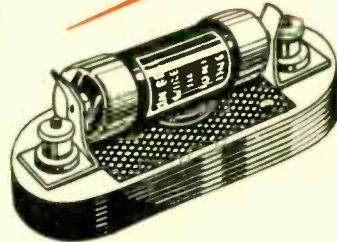
NEXT WEEK

EDISON BELL

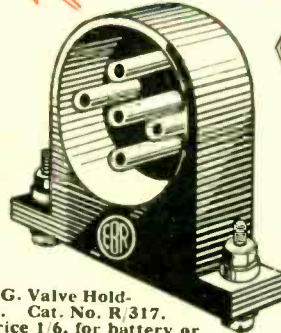
COMPONENTS OF MERIT



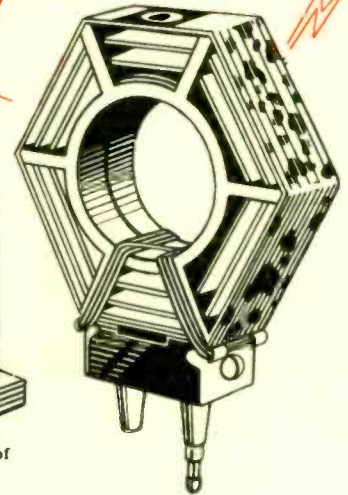
Double Tapped Coil. Cat. No. R/343. Price 3/9 to 5/9, for use in Rehnartz and similar circuits, also for improving selectivity, all sizes 15 to 400 turns.



Wire Wound Resistance. Cat. No. R/361. Price 3/- to 9/6. Non-inductive, wire wound for anode feed and resistance coupling.

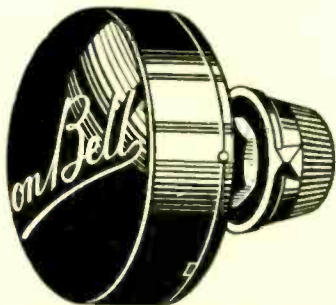


S.G. Valve Holder. Cat. No. R/317. Price 1/6, for battery or indirectly heated valves of screened grid type.

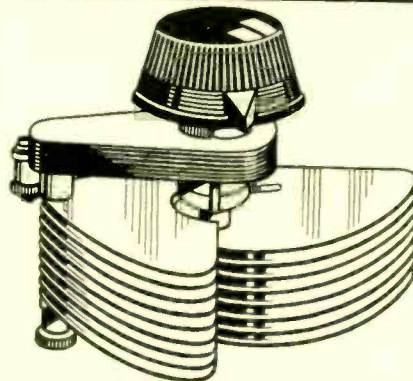


Plain Coil. Cat. No. R/332. Price 2/6 to 4/6, all sizes 15 to 400 turns, high inductance, low self capacity.

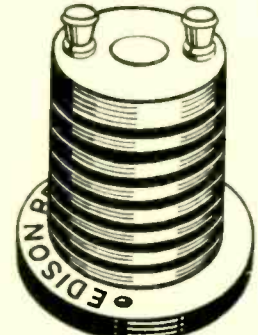
Edison Bell components are noted for their consistency, being produced by experts with a thorough knowledge of each article's respective value. :: ::



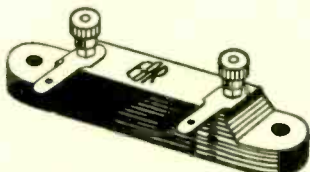
Volume Control. Cat. No. R/142. Price 3/9, 50,000 and 500,000 ohms for pick-up or amplifier Volume Control, silent and efficient.



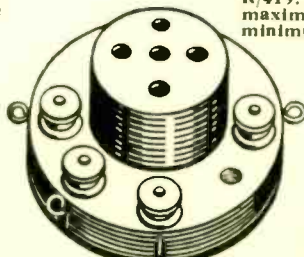
Reaction Condenser. Cat. No. R/419. Price 3/9, 00015 mfd. maximum, extremely low minimum.



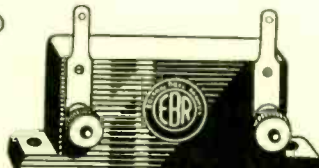
H.F. Choke. Cat. No. R/421. Price 3/9 high inductance, low self capacity, negligible resistance, wound in 8 sections on bakelite former.



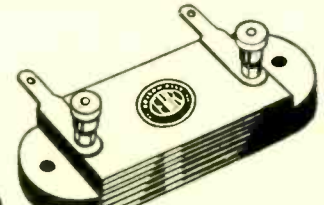
Hermetic Resistance and Grid Leak. Cat. Nos. R/393-4. Price 1/3, 10,000 to 500,000 ohms, and 25 to 5 megohms may be permanently fixed to base-board, silent and efficient in operation.



Five-Pin Valve Holder. Cat. No. R/424. Price 1/6, moulded in bakelite with phosphor bronze, shock-absorbing spring contacts.



Fixed Condenser. Cat. No. R/315. Price, .0001 to .001, 1/-; .0005 to .006, 1/6; .01, 1/9. Upright pattern.

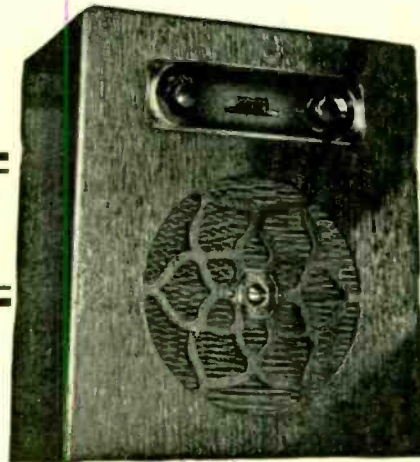


Fixed Condenser. Cat. No. R/140. Price, .0001 to .001, 1/-; .0015 to .006, 1/6; .01, 1/9. Flat pattern.

Write for full particulars to your Factor.

EDISON BELL, LIMITED
LONDON, S.E.15.

Praise of others



All Electric or

Battery driven

No Trickle Charger
No Accumulator
No Battery

In Polished
Oak Cabinet.
Wide Range of Stations

£26 : 15 : 6

Model 303

£17 : 17

Also in blue crocodile finish with silver oxydised fittings. Either model £2 : 2 extra.

"The cabinet is an excellent piece of work . . . the arrangement of the controls in a neat panel and the artistic design of the loud-speaker fret, all make this new Columbia set a very useful piece of furniture in the home . . . the weight has been cut down to a very satisfactory minimum . . . The H.T. consumption is particularly low and the L.T. battery will run the set for approximately thirty-five hours without recharging . . . I saw no cheapening methods which are likely to affect the quality of reproduction . . .

the degree of selectivity is very satisfactory, and as evidence of this I would like to quote the reception of Hilversum at 31 degrees and Kalundborg at 37 degrees, both clear of interference."

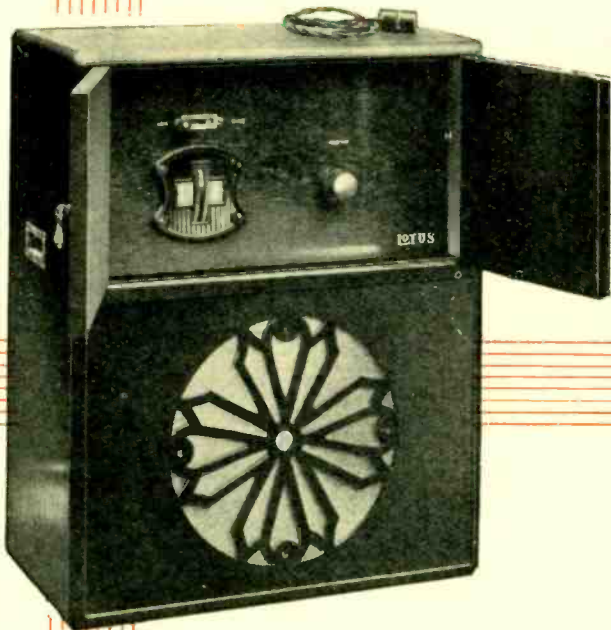


These extracts are taken from 'Amateur Wireless.' Their experienced critic finds much that pleases him in Columbia 303. In truth it is a thoroughly good and sound portable, with the additional advantage that its conversion to an all-electric model is a matter of minutes.

Columbia RADIO

The Columbia Graphophone Co., Ltd., 102, Clerkenwell Road, London. E.C.1.

Lotus Sets are easy to sell and mean big profits

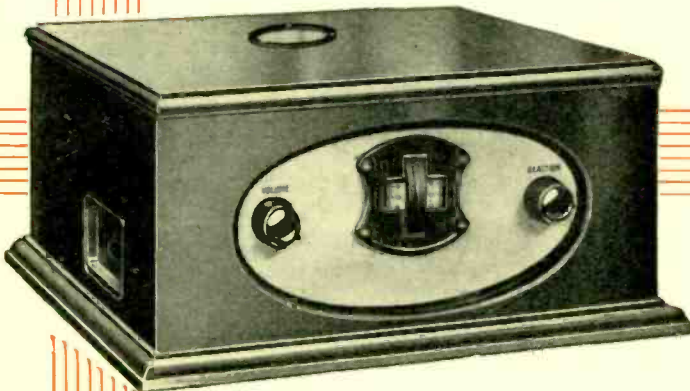


Meet the demand for Lotus Sets by stocking the full Lotus range and selling them, under the generous Lotus Hire Purchase Terms, to your own advantage and your customers' satisfaction.

The Lotus 3-valve S.G.P. All Electric Transportable Receiver is an entirely self-contained set, needing neither aerial nor earth. Having only three valves instead of the usual four or five, and requiring no batteries, this set is extremely inexpensive to run.

Retail price, in Oak Cabinet, £25 4s. 0d. or £2 7s. 0d. down and 11 equal monthly payments.

Mahogany or Walnut Cabinet, £26 5s. 0d. or £2 9s. 0d. down and 11 equal monthly payments.



The Lotus 3-valve S.G.P. All Electric Receiver employs a Screened grid H.F. Amplifier, a High Efficiency Detector and a Pentode Power Amplifier. It requires no batteries, and is available in an Oak or Mahogany Cabinet at £21 (Retail Price) or £1 19s. 9d. down and 11 equal monthly payments.

Write for details of other Lotus Sets.

LOTUS

ALL ELECTRIC RECEIVERS

Garnett, Whiteley & Co., Limited, Lotus Works, Mill Lane, Liverpool

London Depot: 183 Old Street, E.C.2

Telephone: Clerkenwell 2580

5 ISSUES OF SUPREME IMPORTANCE TO THE WHOLE WIRELESS INDUSTRY—

THERE will be five big show numbers of "The Wireless & Gramophone Trader" this year. Each will be packed with details of real business value regarding the exhibitions, and profusely illustrated with the latest sets, parts and materials which manufacturers have to offer.

Special importance attaches to the *Show Report Numbers* (Sept. 20th—Olympia. Oct. 11th.—Manchester). These will be current during practically the whole period of each show and extremely useful to every trader visiting Olympia or the Manchester Exhibition.

THE EXHIBITIONS' PROGRAMME

Many good advertisement positions have already been let and immediate booking is advisable for advertisers requiring prominent positions in these numbers.

Date of Issue		Closes for Press (Black Only)	
		With Proofs	Without Proofs
Sept. 13th	Advance details of Olympia	Sept. 4th	Sept. 6th
Sept. 20th	Complete Stand to Stand Report of Olympia Show -	Sept. 9th	Sept. 11th
Sept. 27th	A Review of 1931 Tendencies as revealed at Olympia - -	Sept. 18th	Sept. 20th
Oct. 4th	Laboratory Tests of Olympia Apparatus and advance Details from Manchester - - -	Sept. 25th	Sept. 27th
Oct. 11th	Complete Stand to Stand Report of Manchester Show	Oct. 2nd	Oct. 4th

Colour Pages 'Close' two days earlier than above dates.

Further details from the Advertisement Manager
The WIRELESS & GRAMOPHONE TRADER
St. Bride's House, Salisbury Square,
Fleet St., London, E.C.4 'Phone: Central 7713
 (9 lines)

**READ
THESE TESTS
CARRIED OUT TWO MILES
FROM THE LEEDS STATION
ON NEW
SCREENED
ROLLS - CAYDON
GRID MODELS**



THE "UNIKNOB"

SCREENED GRID ALL-MAINS III
A.C. ONLY

"Using about 40 ft. of single bare steel wire, half-way round the picture moulding, then upstairs and along the landing, results obtained can only be described as marvellous.

Thirteen long-wave stations were obtained easily, apart from being able to recognise all the main stations, including 5XX, 5GB, Leeds, Stuttgart, Konigsberg, and Frankfurt, which were distinctly heard 250 yards across the gardens at the back of the house.

I find that it will take considerable pains and trouble to sort out all the low-wave stations received, and I can truthfully say that I have never received so many stations at workable strength on any set at all.

I used a 'Rola' Moving Coil Loudspeaker during the test; probably if a good cone had been used the volume on distant stations would have been even greater."

20 GUINEAS

Revised Price

Write immediately for advance details, discounts and a demonstration.

ROLLS - CAYDON SALES

ROLLS-CAYDON HOUSE, 77 ROCHESTER ROW, LONDON, S.W.1

Telephone: 6986 Victoria (5 lines).

DEPOTS PROVINCIALY AND THE LEADING FACTORS.

THE "RANGER"

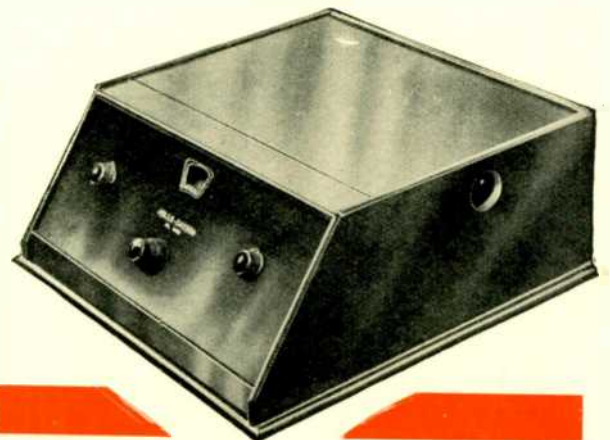
2 SCREENED GRID SUPER RANGE
PORTABLE

"Seven long-wave stations were received at full volume and very excellent quality. The tuning was found to be very sharp on most of the Continental transmissions.

Barcelona, Hamburg, Stuttgart, Breslau, Frankfort, and Toulouse, were received at unusual strength. There was a little difficulty in quite separating 5GB and Langenberg, but the Oslo station was received perfectly in every way.

Altogether 39 short-wave stations were received at sufficient strength to well fill a large room, and many more stations were received at a lesser volume. On Thursday evening, at 11.30 p.m., Oslo was found to be radiating a special broadcast to the United States; several well-known people gave short speeches, and some excellent musical items were included, as well as selections by a well-known Tenor. The quality of the transmission and the volume obtained from this new set on the above broadcast can only be described as uncanny, every movement in the distant studio was easily heard, and with very little imagination one could visualise exactly what was taking place. The actual volume obtained when required could be said to be about 100 per cent. greater than either 5GB or 5XX."

22 GUINEAS



the same insulator. Each part is priced at 4d.

Another new line is a valveholder, which has a skeleton construction, and incorporates four of the "Clix" resilient sockets. This will retail, with terminals, at 10d. Also of interest is the S.G. anode connector, which comprises an entirely insulated resilient socket and a solid plug for permanent connection to the anode terminal of an S.G. valve. This is priced at 3d.

The range of "Clix" products to be marketed this season includes the well-known spade, hook and ring terminal tags, multi-plugs, connectors, and other lines too numerous to mention here.

LECTRO LINX, LTD., 254, Vauxhall Bridge Road, London, S.W.1.

Kabilok.

A new table model moving-coil cabinet, type MC4A, is included in W. & T. Lock's new programme. This cabinet is to be made in oak or mahogany, and is supplied complete with baffle board. The back is left entirely open. Overall measurements are: 18 ins. high by 17 ins. wide by 12 ins. deep.

Model A/1 has a 7½ ins. hole in the baffle board and is suitable for R.K. "Junior" and Magnavox "Special Ex Core" units. Model A 2 has a 10½ ins. hole for R.K. "Senior" and "Permanent Magnet," Magnavox "Ex Core Standard," and Marconiphone units. Model A'3 will be marketed with specially-sized hole to order at a cost of 1s. above the under-mentioned prices. Prices: £1 18s. 6d. (oak) and £2 6s. (mahogany).

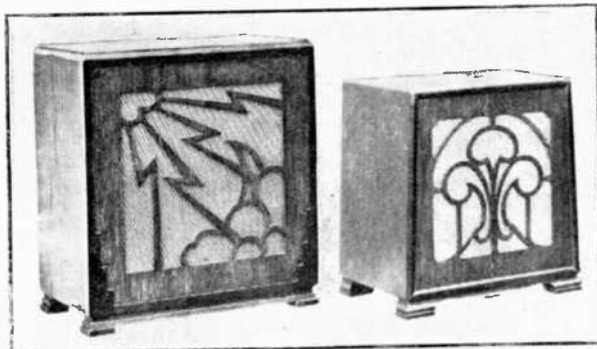
The model MC5 has been specially produced at the request of the Edison Swan Electric Co., Ltd., for that firm's new R.K. permanent magnet moving-coil speaker. The oak cabinet, which has overall dimensions of 3 ft. 3 ins. high by 2 ft. wide by 1 ft. 3 ins. deep, is priced at £5 17s. 6d., while a second type, with special baffle board or cradle as required, costs £6 7s. 6d.

In addition, of course, W. & T. Lock cater for the manufacturer by supplying cabinets of all types to special design, or, alternatively, the standard models may be employed if suitable for the particular purpose concerned.

W. & T. LOCK, LTD., St. Peter's Works, Bath.

Lewcos.

As already announced, there are several new "Lewcos" developments to



Two of the new developments in speaker cabinets announced by W. & T. Lock, Ltd.

be marketed for the new season, together with the majority of lines at present in production.

In the first place an entirely new L.F. choke, with an inductance of 30 H, will be introduced. This, to be known as the LFC, will be listed at 17s. 6d. The LFT5 transformer will be available in either a metal or a moulded bakelite case at 25s., and a new 3-1 model, shrouded in a metal case will make its appearance. Price £1.

Among the unscreened dual range coils, the D.W.A. and the D.W.G. are the most prominent. The former is an aerial coil, and the latter an H.F. transformer for use with S.G. valves. Both are mounted on moulded bases which enclose the push-pull wave-change switches. Price 15s. each.

The SP DAT, an aerial coil, the SP/DAP, an H.F. transformer for three electrode valves, and the SP/DAG, an H.F. transformer for S.G. circuits, come next, these being of the six-pin dual range type. The wave ranges of these are 235-



Working on the inductor principle, this "Silver Ghost" speaker is marketed by S. A. Lamplugh at £3 10s.

550 and 1,000-2,000 metres, and they will be priced at 12s. 6d.

Another interesting new product is the dual screened 2-way coil unit type D.C.G. This comprises a dual range aerial coil and an H.F. transformer for use with S.G. circuits. The coils are wound astatically and are surrounded by a leatheroid-covered screen with a moulded top and base. Wavechange switching will be available for rotary or push-pull operation. Price 45s.

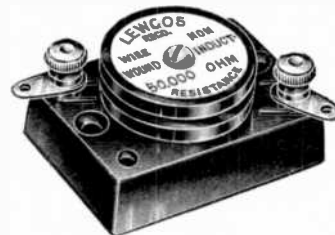
A new dual wave frame aerial will list at 32s. 6d. This is wound with Litz wire on a girder frame, and has push-pull switching mechanism for wave-changing.

Following this, there is a new 50X plug-in coil having a wave range of 157-427 metres. This will be marketed in addition to the present range, at 4s. 9d. Another addition to the plug-in coil range will be a No. 400 centre-tapped coil, priced at 45s.

A development of the

"Lewcos" rejector wavetrap, type RW4, is the TW4, a twin rejector trap which enables either the National or Regional stations to be received at will. The price of this will be 13s. 6d.

An entirely new "Lewcos" departure is the range of five wire wound anode



The range of wire-wound anode resistances is an entirely new "Lewcos" departure.

resistances which will be introduced. The values of these vary from 10,000 O to 50,000 O, and each will be priced at 5s. It is well known that "Lewcos" already list a fixed potentiometer. This year, in addition, they will market a new type having a resistance of 400 O, with tapings at ⅓ and ⅔ of the total. To be known as the PT/400, this will list at 2s. 9d.

"Lewcos" also announce that several of their lines will be reduced in price on September 1st.

LONDON ELECTRIC WIRE CO. & SMITHS, LTD., Church Road, Leyton, London, E.10.

B.A.T. (Clarostat.)

Of the new lines to be introduced this season the B.A.T. switches are particularly worthy of mention. The side-action Q.M.B. switch is obtainable in two models, one, an ordinary "on" and "off" switch, and the other with a 2-way action. In the former model the movement is similar to that employed in the well-known B.A.T. 728 switch, while in the case of the 2-way switch, the movement is as that in the No. 729. The price of the single way type is 2s. 9d., and of the 2-way type 3s. 6d. Another switch which incorporates the No. 728 movement is the push-pull action, 750 W, Q.M.B. toggle model. The 728 is mounted horizontally on a bracket, and the toggle is operated by a spindle which projects through the panel and terminates in a knob. The switch is priced at 3s. 6d.

Then there is the single pole 4-way rotary switch. It is of the Q.M.B. type, and will break a circuit carrying 1 A at 250 V, that is, per contact. An extremely low internal capacity is claimed, and it is suitable for use in H.F. circuits. Price 3s. 9d. Of interest to manufacturers is the rotary 4-position snap switch which can be produced cheaply in quantities, to special order. It can be supplied as a single pole, double pole, or three circuit switch, and almost any combination of four positions can be arranged.

Another new Claude Lyons product, which was the subject of a test report last week, is the Clarostat continuous wire potentiometer, type M 50. There are 20 standard types, with resistances ranging from 100 O to 50,000 O, and prices range from 5s. for the 100 O type to 8s. 6d. for the 50,000 O.

It is of particular interest to note that Claude Lyons intend to specialise in the supply of their products to manufacturers and they are prepared to quote for the delivery of special lines at short notice.

CLAUDE LYONS, LTD., 76, Old Hall Street, Liverpool.

McMichael.

As has already been announced in this journal the latest McMichael product is an A.C. all-mains three-valve receiver. It is housed in an upright table-type walnut cabinet, with the controls mounted at the front. One knob controls the whole of the tuning, and operates a clearly visible pointer moving horizontally over an illuminated scale graduated in wavelengths. Another knob, which, in the first place, controls the volume, also operates a wave-change switch and a switch for bringing a pick-up into circuit. The circuit incorporates a stage of S.G. H.F. amplification, a detector, and a super-power pentode, ganged tuning, of course, being utilised. A socket is provided, so that the set can be used with or without an outside aerial, and loud-speaker and pick-up jacks are fitted. The mains equipment incorporates a Westinghouse rectifier and the output is specially smoothed to give silent operation. The "Mains Three" is for A.C. only, and is listed at 20 guineas complete. A "Battery Three," which is similar in appearance and design to the above, is available at 14 guineas.

L. McMICHAEL, LTD., Wexham Road, Slough, Bucks.

Marconiphone.

It is understood that certain new productions are already being turned out at the Marconiphone Dagenham factory, but it is not the company's intention to announce them until they have on hand what they themselves feel to be adequate initial stocks. It is, however, hoped that news will be available in a week or two from now.

In the meanwhile it can be authoritatively stated that the existing range will in all probability remain unaltered for the coming winter. Whatever innovations eventually are released



This, an A.C. all-mains 3-valve receiver, is the latest McMichael product and is priced at 20 guineas. Note the horizontally moving pointer.

will be additions rather than substitutions—an important point for the trader who is already carrying stocks.

MARCONIPHONE CO., LTD., 212, Tottenham Court Road, London, W.1.

Mullard.

The Mullard policy—particularly with valves—has been to introduce for the benefit of summer trade new types as they have been developed, and therefore it is unlikely that there will at this time be anything striking in the direction of a "new programme" to announce.

Typical examples of the new valves which have recently been introduced, are the S4VA, an indirectly heated S.G. A.C. valve, and the P.M. 256A, a 6V super-power valve, suitable for A.C. or D.C. operation. The S.G. valve is priced at 25s. and the super-power model comes within the range of the recent price reductions, and lists at 13s. 6d. In the large output class, the new D.O.25 valve fills the need for a power amplifier larger than the D.O.20 but with a smaller output than the D.O.60.

Also, it will be remembered that in the late spring of this year Mullard revised and extended their range of rectifying valves, with the result that they can now claim to have a rectifier suitable for every standard A.C. set or mains unit employing valve rectification.

Finally, it should be noted that an autumn issue of "Radio for the Million," containing full particulars of new Mullard constructor's sets, will make its appearance at the beginning of the Show. In the meantime a continuance of the demand for the components and accessories used in the "Master Two" and the "Orgola" is expected.

MULLARD WIRELESS SERVICE CO., LTD., Mullard House, Charing Cross Road, London, W.C.2.

Murphy.

The firm are concentrating on the Murphy portable, which, of course, is a 4-valve S.G. model incorporating several distinctive features. The weight in walnut cabinet is 32 lbs., complete with valves and batteries. External loud-speaker, aerial and earth jacks are provided. The price, complete, is 17 guineas.

MURPHY RADIO, LTD., Welwyn Garden City, Herts.

Membra Farrand.

This wholesale firm, although not manufacturing any specific radio line which they will be pushing, are sole distributors in Lancs., Cheshire, North Wales and the Potteries for the "Membra Farrand" inductor dynamic loud-speaker. The company will be featuring this instrument chiefly.

The price of the "Membra Farrand" speaker, readers should note, has been reduced by 2s. 6d., to £3 10s. retail. The instrument is, of course, used as any ordinary cone speaker. It embodies two pairs of terminals for output valves of various impedances.

NORTHERN STEEL & HARDWARE CO., LTD., 1-3, Southgate, Deansgate, Manchester.

Oldham.

We are informed by Oldham & Son, Ltd., that a new range of "O" type slow discharge accumulators will be marketed during the coming season. Samples are to be sent to us, and upon receipt of these, we will give further details in our columns.

OLDHAM & SON, LTD., Hyde Road, Denton, Manchester.

Ormond.

As in past years, Ormond's are listing an extremely wide range of sets, components and accessories. Portable receivers, radio-gramophones, H.T. and G.B. batteries, cone-speaker units, and innumerable condensers and other components, all figure in their 1930-31 programme.

Several new products are also being manufactured, some already having been released. Among the larger lines the screened-grid 4-valve transportable is being prominently featured at 16 guineas in oak or 17 guineas in mahogany.

There are few corner cabinet loud-speakers on the market at the present time, so Ormond's departure in this connection is of interest. The instrument they are marketing utilises their own cone unit together with their large chassis and cone. The price is 79s. 6d. The large chassis and cone, by the way, is also to be numbered among the new lines, as it is sold separately from the corner cabinet speaker at 11s. 6d.

The Ormond selectivity unit, though of course not entirely new, is taking a prominent place in the Ormond range. As readers are aware, it retails at 7s. 6d.

Quite a variety of new condensers are in production, both variable and fixed. Among the former is the No. 4 log. type available in capacities of .00025 μ F, .00035 μ F and .0005 μ F at 4s., plain, with no dial. A slow motion type with 2½ in. dial costs 2s. extra. Two semi-variable condensers, known as "Varycondensers," sell at 2s. in capacities of .001 μ F and .0003 μ F, while a three-electrode fixed condenser is available at 1s.

Finally, to complete the list of Ormond new lines, to be marketed and already released, should be mentioned a Duo D.I.D. dial at 6s., and a change-over switch at 1s. 6d.

ORMOND ENGINEERING CO., LTD., Ormond House, Rosebery Avenue, London, E.C.1.

Pegasus.

Besides various improvements to the well-known Pegasus receiver selling at 15 guineas, the firm are producing a new and inexpensive 5-valve portable in polished oak cabinet with Jacobean finish. The speaker is a 12 in. cone, and the set is stated to be exceedingly good value for the low price, which is nine guineas.

PEGASUS, LTD., Victoria Street, Chapel Allerton, Leeds.

Perfectavox.

A new radio-gramophone will be added to the Perfectavox range this season. The instrument will at the outset be available in oak, and an induction electric motor, new type B.T.H. pick-up, moving-

coil speaker, will be incorporated. The price will be 47 guineas, and deliveries will commence on September 1st.

"PERFECTAVOX," LTD., Alexandra Works, High Street, Yeoman, nr. Leeds.



Redfern's are producing a range of "Ebonart" low loss formers, this, an H.F. choke former, being one of them.

Parfait.

Last June H. B. Potter & Co., Ltd., sustained a disastrous fire at their Rochdale factory. Although the bulk of their stock was destroyed, as well as some valuable machinery, the premises are rapidly being rebuilt, and the firm will definitely be in full production for the coming season. They would like it to be understood that the fire occurred too early in the year to interfere with their autumn production.

Ebonite products are the speciality of H. B. Potter, who produce a very wide range of ebonite sheets and panels under the trade name of "Parfait." Black and mahogany finishes are available, matt and highly polished, while ebonite finished with a cube pattern is a speciality of the firm.

H. B. POTTER & CO., LTD., Station Buildings, Rochdale, Lancs.

R.I.

Deliveries have now commenced of the two new mains units manufactured by this firm. These accessories, together with the new 4-valve "Madrigal" receiver, will form the chief R.I. selling lines for the coming season.

The mains units—one for A.C. and the other for D.C.—are suitable for operating ordinary receivers employing an external aerial, and at the same time they will also fit into most portable instruments, the overall dimensions being approximately similar to those of an ordinary 100 V H.T. battery. Of especial interest are the moulded bakelite cases—in a mottled brown finish—which have ventilation louvres and recesses to keep the terminals and voltage adjusting controls flush with the surface.

Both models will be provided with three tapings—one variable 0-150 V for the detector; one fixed, 50-80 V for the screened grid; and a fixed tapping for the output valve, giving 150 V, 20-25 mA. The A.C. model makes use of the new and improved form of Westinghouse metal rectifier, and in addition, special precautions are stated to have been adopted to ensure the absolute elimination

of mains hum. The prices have only been fixed approximately at the moment, but we understand that the A.C. unit will not exceed £4 17s. 6d., while the D.C. model will be in the immediate neighbourhood of £2 15s.

RADIO INSTRUMENTS, LTD., Purley Way, Croydon.

Redfern.

Although no definite details are yet available of the firm's new lines for the coming season, we understand that there are several propositions under consideration.

All the firm's present lines will be marketed during the coming season, with a few slight alterations. The "Ebonart" panels in black and mahogany, with various finishes; "Bulwark" panels in various colours; "Ebonart" low-loss coil formers; and other ebonite, rubber and bakelite products will be listed as previously.

REDFERN'S RUBBER WORKS, LTD., Hyde, Cheshire.

Rees Mace.

An entirely new portable will be the "Welbeck Major" at 22 guineas. The circuit will be of the S.G.4 type.

An improved model of the Gnome portable will shortly be available, while a transportable model in various finishes is to be produced either for battery or mains drive.

REES MACE MANUFACTURING CO., LTD., 39A, Welbeck Street, London, W.1.

Rely-On.

A complete range of dry G.B. and H.T. batteries comprise the programme of the Rely-On Co. Although only of the standard capacity type, all these batteries are recommended by the makers for a discharge of anything up to 12 mA.

Three G.B. batteries are made, with voltages of 4½ V, 9 V, and 15 V respectively, the prices being 10d. for the first, 1s. 7d. for the second, and 2s. 9d. for the 15 V model. Each of these has intermediate tapings in 1½ V steps.

The H.T. batteries are made in nine types with maximum voltages ranging from 36 V to 150 V, each of which has a tapping every 9 V. The smallest battery (36 V) retails at 6s., the 60 V type at 10s., the 108 V type at 18s., and the largest battery (150 V) is priced at 25s.

RELY-ON CO., Cromwell House, High Holborn, London, W.C.1.

R. and A.

Reproducers and Amplifiers, Ltd., are at present engaged on the production of loud-speaker driving units for sale to manufacturers.

Two units are available, known as type 30 and 30A, the former having been designed for use directly in the plate circuit of a pentode valve, but being equally satisfactory when employed in conjunction with any triode with an output of up to 1,000 watts A.C. Further particulars regarding the units may be obtained on application to—

REPRODUCERS & AMPLIFIERS, LTD., Frederick Street, Wolverhampton.

Challenger.

Two types of moving-coil speaker cabinets are to be produced by Frank Riddiough for the coming season. Both are of the table type, and are suitable for Magnavox or similar speakers. One type measures 14½ ins. high by 16 ins. wide by 13 ins. deep, and is priced at £2 17s. (oak) and £3 (mahogany or walnut). The second model measures 14 ins. high by 13½ ins. wide by 10 ins. deep, and the prices are: £2 15s. (oak) and £2 18s. (mahogany or walnut).

FRANK RIDDIOUGH & SON, Simes Street, Bradford.

Riversdale.

During the forthcoming season, this firm will concentrate on a single line, which takes the form of the "Riversdale Popular" portable receiver. This is of the suitcase type, with the speaker and frame aerial behind a grille in the lid, and the set and batteries in the body of the case. It employs a 5-valve circuit, and utilises only components of the highest quality throughout. The retail price is £8 19s. 6d.

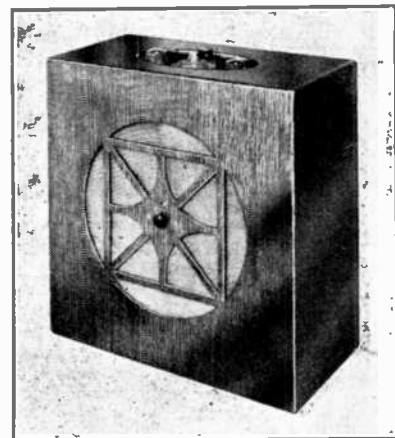
The makers of this set point out that it is sold to retailers through factors only, this method of marketing, they state, ensuring satisfaction to the dealer who is served by a firm he knows.

RIVERSDALE RADIO CO., LTD., Kingston-on-Thames.

Rolls-Caydon.

The first of the new Rolls-Caydon productions for the coming season is the "Ranger" 2 S.G. portable, in which the circuit consists of 2 S.G. valves, detector and pentode. The cabinet, which measures 15½ ins. by 15 ins. by 9 ins., is covered with solid crocodile-grained leather. Tuning is obtained by means of a single control operating ganged condensers, while a Celestion speaker is incorporated. In a test the firm inform us that the receiver proved to be very selective, and also that some forty stations were received in the course of an hour and a quarter. The set weighs 28 lbs., and the price is 22 guineas complete.

The second new receiver is the "Uni-knob" all-mains 3-valve model for A.C. mains of any voltage. The circuit



This is the attractively priced 5-valve portable marketed by Pegasus, l.t.d., at 9 guineas, and described on the previous page.

consists of an S.G. valve, detector and pentode, and, if required, an outside aerial can be dispensed with, the capacity of the mains circuit being used instead. The walnut cabinet measures 17 ins. by 16½ ins. by 7 ins. Single dial control is used, and the receiver weighs 18 lbs. The price is 20 guineas.

ROLLS-CAYDON SALES, Roll's-Caydon House, 77, Rochester Row, Victoria Street, London, S.W.

Rolls.

The three lines upon which Rolls Radio, Ltd., will be concentrating are a 4-valve portable and two radio-gramophones.

The portable is a suitcase model in crocodile hide. It utilises a powerful circuit, with two S.G. stages and a pentode. A Hellesen double capacity H.T. battery is incorporated, while the speaker is a 14-inch Celestion. The retail price of the set is 34 guineas.

A 3-valve circuit, with one H.F. stage, detector and pentode is used in the table radio-gramophone, which is an all-mains instrument for A.C. only. The loud-speaker, a Mullard cone, is built into the radio-gramophone, but an external aerial has to be used. On the gramophone side there is a spring-driven motor with a B.T.H. pick up. Contained in a walnut cabinet, the Rolls table radio-gramophone lists at 35 guineas.

Several of the characteristics of the table model appear in the Rolls pedestal model "Radiogram." A similar circuit and pick-up are used, together with an external aerial. An electric gramophone motor, however, is fitted, this instrument also being A.C. mains driven. The cabinet is of walnut and the price is 55 guineas.

ROLLS RADIO, LTD., 138, St. John Street, London, E.C.1.

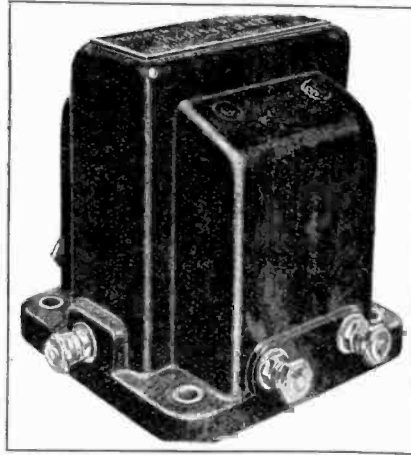
Selector.

A new addition to the Selector range for the coming season is the "Attaché 22" portable. The set is stated to be



of particularly handsome and neat appearance, and the finish is in brown Rexine. As in other Selector products, the set is very selective, and long range is an outstanding feature.

SELECTORS, LTD., 206, Bedford Avenue, Slough, Bucks.



This illustration gives some idea of the appearance of the "Telsen" transformers which are now marketed in moulded bakelite cases.

Wates.

As announced briefly in our columns last week, the Standard Battery Co. are to market, during the coming season, a 4-valve all-electric set for A.C. operation. The set employs three indirectly heated valves, and a directly-heated super-power valve in the last stage. The cabinet, of the American table type, will be available in oak, mahogany, or walnut. All the controls are mounted on the panel at the front, the two tuning dials being viewed through an escutcheon plate in the centre. The receiver is suitable for use on any supply from 90-240 V A.C., and will be priced at £25, including valves.

Another new line is a pedestal cabinet speaker, designed specially to match the new receiver. This is in veneer walnut of selected grain, and stands on four long square legs. It incorporates a 20 in. double-cone chassis and a "Star" speaker unit. The list price will be 6 guineas.

A new radio-gramophone is also to be introduced, and the price of the instru-

ment will be £51 ros. in mahogany, and £54 ros. in oak.

Other new products include a test plug for valves either of the 4- or 5-pin type selling at 2s. 6d. In addition the Wates meters, speakers, pick-up arms, and the "Standard" sac Leclanche H.T. batteries will be listed in the firm's forthcoming programme.

STANDARD BATTERY CO., 148-188, Shaftesbury Avenue, London, W.C.2.

T.C.C.

All the new products for the coming season are for the manufacturing side of the trade, but the following lines, which were standardised last year, are included in T.C.C. products available for the retail market: Electrolytic condensers for 12 V D.C. working, 200µF and 2,000 plus 2,000 µF; for 40 V D.C. working, 500 µF.

With regard to the lines which are produced especially for the use of manufacturers, the new type M fixed condensers are among the most important. It will probably be recalled that a test report on these particular components appeared in our issue of August 2nd. They are available in capacities from 0.001 µF to 0.1 µF, and are totally enclosed and sealed in black moulded cases, with tags for the connections.

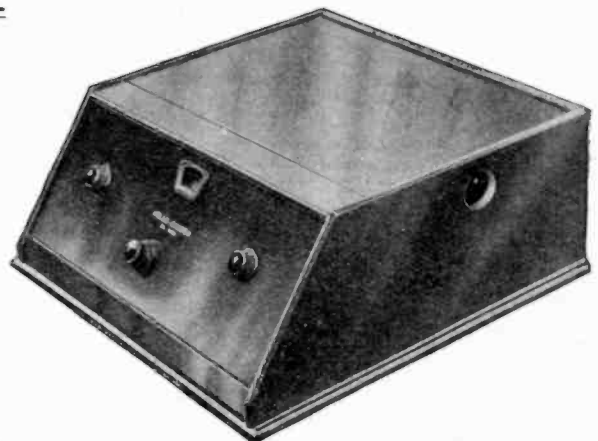
Furthermore, T.C.C. are again catering for manufacturers of mains sets and units by their subdivided block condensers made in a variety of different types to suit individual requirements.

Finally, the range of electrolytic condensers has been materially extended, and the following new additions have been made: 12 V D.C. working types available in 50, 250, 500 and 1,000 µF. 100 V D.C. working types available in 2, 15, 30, 80 and 250 µF. Supplies of these models are at present confined to manufacturers.

TELEGRAPH CONDENSER CO., LTD., Wales Farm Road, North Acton, W.3.

Telsen.

For some years now Telsen have marketed the "Radiogram" and "Ace" low-frequency transformers, which have achieved very considerable popularity. This year further lines have been introduced, while the transformers have been redesigned, and now appear in a new and improved form.



Left: The "Attaché 22," to be marketed by Selectors, Ltd.

Right: One of the new Rolls-Caydon products—the "Uniknob" all-mains 3-valve receiver, priced at 20 guineas.

Hitherto Telsen transformers have been enclosed in metal shrouds, but the redesigned types have bakelite cases, while the internal design has been improved. Each model is fitted with a core earthing terminal. The prices remain the same, namely, 17s. 6d. for the 7-1 "Radio-grand," for the 5-1 and 3-1 models at 12s. 6d., while for the "Ace" they are 8s. 6d. for the 5-1 and 3-1 models.

As in the case of their transformers, Telsen's components are competitively priced. A range of new fixed mica condensers, available in capacities up to .001 μ F., are priced at 1s. These, supplied with patented grid-leak clips enabling series or parallel connections to be made, can be mounted vertically or horizontally. They have neat moulded cases.

Priced at only 2s. 6d., the Telsen H.F. choke is another new line. It also has a moulded case.

TELSEN ELECTRIC CO., LTD., Miller Street, Birmingham.

Trelleborg.

Almost any type of ebonite products can be turned out by Trelleborg's, who specialise in the manufacture of ebonite parts and mouldings.

Drum dial discs, slotted panels, choke and coil formers and switch blocks and pillars are but a few examples of the lines produced by the firm. Knobs of a large variety of shapes and sizes are also made, from a small one for change-over switches up to large types for condenser dials.

TRELLEBORG EBONITE WORKS, LTD., Union Place, Wells Street, London, W.1.

Tungsrām.

Most of the present range of Tungsrām valves are being continued, including directly-heated and A.C. valves. Several new types have, however, been produced, of which we give brief details.

With the exception of the S210 and AS4100, all are 4 V types. These two exceptions are respectively a battery-driven screened-grid valve and an A.C. screened-grid valve selling at 13s. and 10s., and having amplification factors of 300 and 250.

Among the remaining valves are a super-power type known as the P430, with an amplification factor of 5, and priced at 11s. It takes up to 250 V on the plate. Then there is a "special power" type with a "mag." of 4, and a maximum plate voltage of 220. Price 16s.

A third screened-grid valve now demands attention, the S407. Its amplification factor is 350, and the price 13s.

This valve has the lowest filament consumption of any of the new Tungsrāms, namely, .07 A.

Lastly, there are three rectifying valves, the V430 and V495 half-wave rectifiers and the PV495 full-wave rectifier. All sell at 10s. The anode powers are



Turner & Co. have introduced this new 3-valve battery-driven receiver at £3 19s. 6d.

as follows: V430, 250 V at 25 mA; V495, 300 V at 70 mA, and PV495, 2X300 V at 50 mA. The filament current is 1.1 A with the last two valves, and .3 A with the V430.

TUNGSRAM ELECTRIC LAMP WORKS (G.B.), LTD., 72, Oxford Street, London, W.1.

Tunewell.

Known in the past for their various components and accessories, Turner & Co. have launched out with a 3-valve receiver at a very competitive price. Incidentally, before continuing with a description of the set, we should mention that the firm's loud-speaker unit was placed first in the recent tests conducted by the *Wireless World* for quality of reproduction.

The receiver is a 3-valve instrument making use of a 3-valve circuit-detector, followed by one R.C. and one transformer-coupled L.F. stages. A dual range coil is incorporated, and there are three alternative aerial connections, giving varying degrees of selectivity. "Tunewell" components are, of course, largely used, and the whole set is contained in a metal case with a brown finish. The price of £3 19s. 6d. does not include valves and royalties. A guarantee of twelve months is given with the set.

TURNER & CO., 54, Station Road, N. 11.

Ultra.

To their range of complete receivers,

hitherto only of the portable type, Ultra have added an all-electric A.C. set—a 3-valve instrument with one S.G. H.F. stage and—an unusual feature—with a screened-grid detector valve, followed, as is standard practice, by one L.F. stage. Three A.C. valves are used.

The set is built on an all-metal chassis and is contained in a walnut cabinet. Tuning, carried out by a single knob gang control, covers from 220 to 2,000 metres. There is provision for a pick-up, and a volume control is fitted. The Ultra all-mains set retails at £23 complete.

Ultra's new lines are not confined to the receiver field, as they have also produced a gramophone pick-up, selling at 42s., complete with leads. It has a 4-pole balanced armature, and is marketed complete with a ball-bearing tone arm.

Ultra's popular Air Chrome speakers are being strongly featured this year, including the 50s. cabinet model, the U99 at £4 10s., the U12 at £3 15s., the U14 at 5 guineas and the U18 at 9 guineas. A chassis model is also listed.

ULTRA ELECTRIC, LTD., 661, Harrow Road, London, N.W.10.

Truvox.

Several interesting "Truvox" features will be included in the programme of the Universal Gramophone & Radio Co., Ltd.

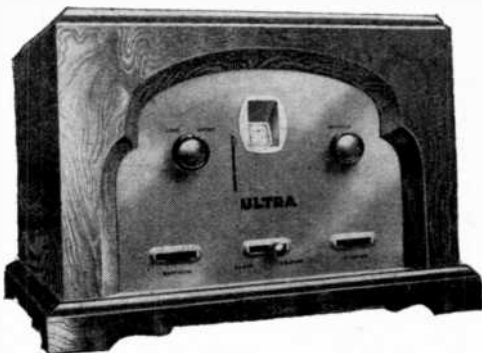
In the first place, there is a "fool-proof" electric gramophone, listed at £30. This is an all-mains machine, and will be available for either A.C. or D.C. operation. The unique point about it is that it is switched on and off by the action of the pick-up arm.

The "Baby-Grand" radio-gramophone, which was marketed last season, will be replaced by the "Junior Grand"—an all-electric model priced at £50. This model will also be available in battery-driven form at £38.

The range of "Truvox" radio-gramophones will vary a little in price, but the "De Luxe" and "Concert Grand" models, although greatly improved, will be listed as before. The "Bijou" model, introduced late last year, has also been improved and brought up to date, and will be offered in several types, ranging in prices from £22 to £30.

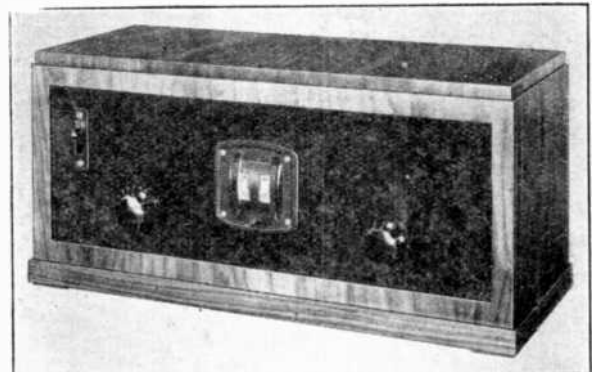
Finally, speakers, including exponential horn types, will be marketed at prices 25 per cent. less than last year.

UNIVERSAL GRAMOPHONE & RADIO CO., LTD., Ryland Road, Kentish Town, London, N.W.5.



Left: The new Ultra all-A.C. set at £23.

Right: A new Standard departure in the form of a 4-valve all-mains receiver priced at £25.



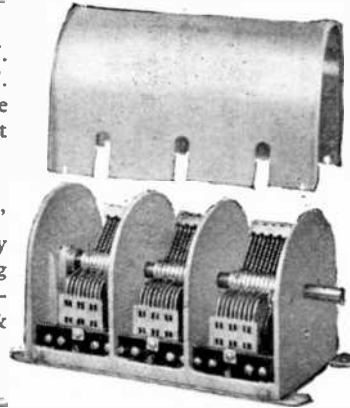
C.A.V.

During the coming season C. A. Vandervell will concentrate on L.T.



Left: A new C.A.V. mass plate L.T. accumulator, the B.G.M., priced at 8s. 6d.

Right: The "Tub" triple-ganged, fully screened, tuning condenser introduced by Wingrove & Rogers.



accumulators for portable sets, and particularly on their jelly acid non-spillable types, which are suitable for all popular portables. The special jelly electrolyte used has made it possible for the maker to build a cell which is stated to have a greater capacity than batteries of the free acid type.

A new addition to the C.A.V. range of mass plate L.T. batteries is the "BGM" 45 A cell priced at 8s. 6d.
C. A. VANDERVELL & CO., LTD.,
Acton, London, W.3.

Watmel.

Watmel's chief new product for the forthcoming season will be a 3-valve receiver, making use of a straight "detector and two L.F." circuit.

The instrument will be contained in a metal cabinet, and will be built up on a baseboard 16 ins. by 7 ins. Among its components will be included two recently released lines, the Type 31 Universal dual range tuner and Type DX3 binocular H.F. choke. A push-pull switch will

effect wave-changing. At the moment details of price are not available.

The Type 31 tuner, recently tested by us, is mounted vertically on a moulded bakelite base. Wave changing is effected in an ingenious manner by means of a specially designed push-pull switch of very sturdy construction, which operates inside the hollow base. Two extension rods, one with a bakelite knob, are supplied for use with the switch. The retail price is 17s. 6d.



Two H.F. chokes, introduced a few months ago, will figure to a large extent among Watmel's 1930-31 lines. They are the DX2 at 4s. and the DX3 at 6s. Both are similar in appearance, being of the binocular type. In characteristics only do they differ.

WATMEL WIRELESS CO., LTD.,
Imperial Works, High Street, Edgware.

Westinghouse.

In our issue of July 26th we published details of the new metal rectifiers for manufacturers, and we now learn that several types of a similar nature will shortly be available for home construction. These will be suitably cased in metal boxes with terminals, etc., as in the present models.

The manufacturers' models referred to above are known generally as "Style C," and four different types are listed for different outputs.

THE WESTINGHOUSE BRAKE & SANY SIGNAL CO., LTD., 82, York Road, King's Cross, London, N.1.

W.B.

Several new lines are listed by Whiteley, Boneham for the coming season. First there is the W.B. permanent magnet moving-coil speaker; price, chassis only, 6 guineas; in oak cabinet, 8 guineas; in mahogany, £8 18s. 6d.

A new cabinet cone speaker is to be retailed at £2 7s. 6d. in oak; £2 9s. 6d. in mahogany.

Two new components are the push-pull switch with patent conical nickel-silver contacts, 1s. 3d., and the 4- or 5-pin valve-holders for under-metal baseboard mounting, 1s. 3d.

In addition, the present full range of W.B. valve-holders, cone and moving-coil speakers will be listed during the 1930-31 season.

Manufacturers should note that aluminium and copper screens can be supplied to specification by this firm.

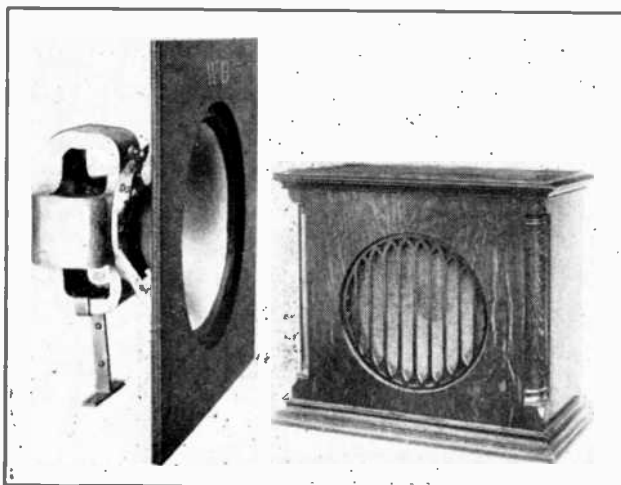
WHITELEY, BONEHAM & CO., LTD.,
Nottingham Road, Mansfield, Notts.

Utility.

To the already extensive range of well-known "Utility" condensers are to be added three new models. These are the "Mite" log. condenser, similar to the "Mite" square law type (except, of course, in the shape of the vanes), while the prices are the same; the "Mite" thumb control condenser, which is similar to the log. condenser, but has a special end plate for drum control; and the "Mite" log. double balancing condenser, a log. law model, similar to last year's model, though improved in many respects. The prices are the same as for last year's similar types.

In response to the present increasing demand for drum dials, Wilkins & Wright have produced one type giving a very open scale, having a reduction of 2-1, and selling, inclusive of a panel plate in black or walnut, at 7s. 6d. Left or right-hand dials can be supplied. At an extra 2s. 6d. a model is available in which the knob operates the dial instead of the thumb, while a special panel plate is supplied. The panel plates of these drum dials are moulded to accommodate a lamp, a flash lamp fitting being produced at 9d.

Not only for their condensers but also for their switches are Wilkins & Wright well known. Four new anti-capacity switches are to be included in the company's 1930-31 programme, the outstand-

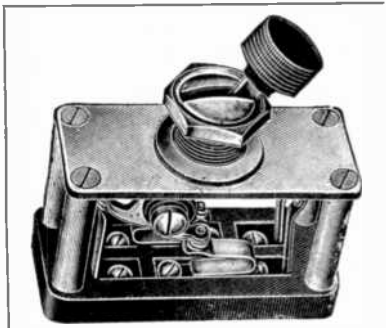


On the left are two Whiteley Boneham lines: the permanent magnet moving-coil speaker and the oak cabinet cone.

On the right we illustrate the new Polar disc drive as it would appear when mounted on a panel.



ing feature of these being that the contacts are fitted with solid silver. A centre position is provided and the base



One of the new "Utility" anti-capacity one hole fixing switches.

is moulded from bakelite. Although the switches are lever operated it has been found possible to manufacture them for one-hole fixing. The two-pole change-over switch is to retail at 5s. 6d., the three-pole type at 6s. 6d., the four-pole type at 7s. 6d., and the six-pole switch at 9s. 6d.

WILKINS & WRIGHT, LTD., Utility Works, Holyhead Road, Birmingham.

Polar.

Variable condensers will be the main Polar selling lines for the coming season, and all the well-known types will be listed. From September 1st the prices of the following types will be reduced as indicated—Q.J., .00025, 9s.; .00015, 8s. 9d.; .0001, 8s. 6d. Volcon, .00025, 5s.; .00015, 4s. 9d.; .0001, 4s. 6d. Differential, .0003 each side, 6s.; .00025, 5s. 6d.; .00015 and .0001, 5s.

Other condensers now being placed on the market are the Universal, .0005 at 7s. 6d., and .0003 at 7s.; the special short-wave model (15 and 40 metres), at 15s.; the pre-set model, either .001 or .0003, 2s.; and the 2-, 3- and 4-ganged condensers in various forms.

In view of the increasing popularity of ganged condensers, the new "Tub" 3-ganged fully screened model is interesting. It is fully enclosed, and each section is separately screened. Price, with disc

drive, £2 10s.; with drum drive, £2 13s. 6d.

Besides the Differential type already mentioned, there is a Differential slow motion model at 8s. 6d. (.0003 each side), 8s. (.00025), 7s. 6d. (.00015 and .0001).

The Trimmer condenser for use with ganged condensers, or for reaction, is obtainable in a variety of capacities at 3s.

Two new drives are to be included in the 1930/31 Polar list. The first is the drum drive at 8s. 6d., and the second the disc drive at 5s. These will fit any standard condenser, either single or ganged, and should prove a good line.

Polar chokes, dials, potentiometers will be listed as in the previous season.

WINGROVE & ROGERS, LTD., Arundel Chambers, 188, Strand, London, W.C.2.

Wearite.

A number of "Wearite" lines will augment the existing range this season. There will be two new dual range binowave coil units known as types D and E. Mounted on ebonite bases, these are suitable for baseboard use, the change-over switch being arranged to protrude horizontally through a panel. The coils themselves of the solenoid type, are mounted vertically side by side. The price for both types is 17s.



Two new "Wearite" lines. Left: one of the range of variable resistances and right, the L.F. coupling unit.



Young.

Besides the Young accumulators which have recently been greatly improved and are fitted with Wilderman porous ebonite

An "Orgoa" mains transformer suitable for use in the mains units described in *Radio for the Million*, is also to be featured. It sells at 30s. for 40-100 cycle or 25 cycle mains.

separators, the firm are shortly to introduce an electrolytic rectifier for A.C. mains up to 250 V.

THE YOUNG ACCUMULATOR CO. (1929), Ltd., New Malden.



Here are two new lines mentioned on preceding pages. Left: One of the many Grosvenor dry H.T. batteries. Right: The new Harlie induction gramophone motor complete with pick-up, turntable and automatic stop.



COMMERCIAL INFORMATION

GAZETTE.

K.T.B. Mig. Co., Ltd. At an extraordinary general meeting held on July 31st, it was resolved that as the company cannot, by reason of its liabilities, continue business, it be wound up voluntarily, and that Mr. Alfred T. Chenhalls, C.A., 115, Chancery Lane, London, W.C.2, be appointed liquidator.

United Gramophone Fittings Co., Ltd. At an extraordinary general meeting held on July 17th, it was resolved that the company cannot, by reason of its liabilities, continue business, that it be wound up, and that Mr. Ernest Pidduck, I.A., 60, Queen Victoria Street, London, E.C.4, be appointed liquidator.

Receiving Order, Adjudication, First Meeting and Public Examination.

Hollingsworth, William A., 3, Barton Terrace, Stanley Street, and trading at 23, Princes Avenue, and 2, Arnold Street, Kingston-upon-Hull, wireless and gramophone dealer. Court: Kingston-upon-Hull. Date of petition and order: August 5th. Debtor's petition. First meeting: 11.30 a.m., August 20th, at the Official Receiver's office, 37, Scale Lane, Hull. Public examination: 2 p.m., October 13th, at the Guildhall, Alfred Gelder Street, Hull.

Adjudication.

Richardson, Leslie O., 205, Railton Road, Herne Hill, London, electrical engineer, etc. Court: High Court of Justice. Date of order: August 2nd. Date of petition: June 18th.

Orders made on Application for Discharge.

Ross, William, 35, Bridge Street, Haverfordwest, Pembro., wireless engineer. Court: Haverfordwest. Date of order: July 16th. Nature of order: Adjourned sine die.

Baynes, Maudslay, of "Polkirt," Nightingale Lane, Chalfont St. Giles, Bucks., and lately trading in partnership with another as Langham Radio, wireless manufacturers. Court: High Court of Justice. Date of order: July 4th. Nature of order: Bankrupt's discharge suspended for 2 years 6 months, and that he be discharged from January 4th, 1933. This amended notice is substituted for that published last week.

Intended Dividend.

Clements, Margaret Kate (spinster), described in the receiving order as Clements, M. K., trading as **K. Raymond**, 27, 28A, Lisle Street, London, W.C.2, wireless apparatus dealer. Court: High Court of Justice. Last day for proofs: August 27th. Trustee: S. G. Crimes, 150, Southampton Row, London, W.C.1.

Dividends.

Tempest, Colonel, Nursery House, Clayton Heights, Bradford, trading at 4, Mann's Court, Bradford, electrical engineer, etc. Court: Bradford. First and final dividend of 9³d. in the £ payable on August 25th at 21-22, Prudential Buildings, Bradford.

Ideal Wireless Co., Ltd., Dorland House, 14, Regent Street, London, S.W.1. Court: High Court of Justice. First and final dividend payable on August 21st, or any subsequent day, at the office of the liquidator, 133, Moorgate, London, E.C.2.

Gardner, Kenneth L., 7, Bridge Street, Wisbech, Cambs., wireless apparatus dealer, etc. Court: King's Lynn. First and final dividend of 2s. 5⁴d. payable on August 20th, at the Official Receiver's offices, 41, Sidney Street, Cambridge.

Dissolution of Partnership.

Aitken, Thomas, and Rush, James, trading as **Aitken & Rush**, 42, Pudding Chare, and 31, Westgate Road, both Newcastle-upon-Tyne. Dissolved: July 12th. Debts: Thomas Aitken, who continues to trade as Aitken Bros. & Co., at 42, Pudding Chare, while J. Rush continues as J. Rush & Co., at 31, Westgate Road, Newcastle.

Receivership—Appointment.

Central Wireless Co., Ltd. J. C. Helme, of 11, Queen Victoria Street, E.C.4, was appointed Receiver and Manager on July 28th, 1930, under powers contained in debentures dated January 25th, 1930.

Mortgages and Charges.

Pandona, Ltd. Debenture dated July 23, 1930, to secure £1,000, charged on the company's undertaking and property, present and future, including uncalled capital. Holder: W. F. Hutton, 33, Sandon Road, Edgbaston, Birmingham.

Corolectric, Ltd. Debenture dated July 23rd, 1930, to secure all moneys to become due to the holder under an agreement of the same date, charged on the company's undertaking and property, including uncalled capital. Holder: A. Woodley, Longwood, South Road, Chesham Bois, Bucks.

Peto Scott Co., Ltd. Particulars filed of £4,000 debentures authorised July 28th, 1930, charged on the company's undertaking and property, present and future, including uncalled capital, the whole amount being now issued.

Satisfaction.

Note: Where the amount "originally secured" is stated, that is not necessarily the amount outstanding at the date of the satisfaction recorded below. There may have been previous partial satisfactions, registered or unregistered. The registration of Satisfactions is not compulsory.

M. Brown & Sons (Bournemouth), Ltd. Satisfaction to the extent of £2,584 on July 22nd of mortgage dated May 28th, and registered May 29th, 1930.

County Court Judgments.

The following returns have been received from the Registry of County Court Judgments, Treasury, Whitehall, which purports to contain lists of judgments entered up in the respective County Courts of England and Wales, but no distinction is made on the register between actions for debts or damages or properly disputed cases; neither is it known which of the judgments remain unpaid at the present time; and it is probable that a large proportion of them have been settled between the parties or paid. It may also be observed that some of the judgments registered are against defendants in a representative capacity. The name given is that of the defendant; the amount is that for which judgment was given, and the date is that on which it was given.

Brosan, E., 267, High Road, Willesden

Green, N.W.10, wireless dealer. Court: Bloomsbury. £45 17s. 10d. July 9th.

Atkinson, D., 25, Connaught Road, Folkestone, Kent, wireless consultant. Court: Folkestone. £32 14s. 6d. July 9th.

Guilding, J., 149, Dover Road, Folkestone, Kent, wireless and gramophone dealer. Court: Hastings. £30 1s. 3d. June 28th.

J. D. Wireless, Breck Road, Everton, Lancs., wireless engineers. Court: Rugby. £10 17s. 2d. July 16th.

Weinbaum, Philip (trading as **Bloomsbury Wireless Co.**), 9, Old North Street, Theobalds Road, W.C.1, wireless dealer. Court: Clerkenwell. £10 17s. 4d. July 1st.

Wallis, Alexander James, Delphinia Cottage, Church Hill, Little Common, Bexhill, wireless dealer. Court: Hastings. £10 1s. 6d. June 24th.

Warburton, S. G., Horcastle, Yatton, Som., wireless dealer. Court: Bromley. £21 12s. 1d. July 10th.

Bradley, Cecil L. (trading as **Bradley Radio**), 51, Derek Avenue, Hove, Sussex, wireless dealer. Court: Westminster. £18 4s. 2d. June 27th.

Syston Wireless & Electrical Stores, 15, Melton Road, Syston, nr. Leicester, wireless dealers. Court: Westminster. £36 3s. 5d. June 30th.

Radiocraft, 5, Belle Vue Parade, Wandsworth Common, S.W.17, electrical engineers. Court: Westminster. £13 14s. 2d. June 30th.

Wilde, H., Willow Street, Oswestry, Salop, wireless dealer. Court: Birmingham. £14 0s. 3d. June 23rd.

Brown, H., Market Street, Wellingborough, Northants, wireless engineer. Court: Coventry. £13 13s. 11d. July 18th.

The London Television Co., 60, Richmond Road, Twickenham, Middlesex, wireless dealers. Court: Walsall. £15 11s. 11d. July 16th.

Bankruptcies.

Frank Maynard Crane, trading as **C. S. Mayfield & Co.**, 67, Carshalton Road, Carshalton, and as **The Sutton Electrical Installation Co.**, 38, Brighton Road, Sutton, Surrey, electrician, etc.

The first meeting of creditors interested herein was held on August 6th at 29, Russell Square, London, W.C.1, when a statement of affairs was submitted, disclosing liabilities of £294 5s. 11d. against assets of £91 16s., thus leaving a deficiency of £202 9s. 11d. The debtor attributed his failure to lack of capital, bad trade and heavy overhead charges. The case being a summary one, was left in the hands of the Official Receiver as trustee.

The following are creditors:—

Cosser, Ltd., A. C., London	£21
Cadisch, R., & Sons, London	15
District Radio, Ltd., London	17
Dulcetto Polyphon, Ltd., London	15
Falk, Stadelmann & Co., Ltd., London	19
Fuller Accumulator Co., Chadwell Heath	12
L.E.S. Distributors, Ltd., London	19
Philips Lamps, Ltd., London	17

George Ernest Spero, trading as **Truphonic Wireless Co.**, 121-123, Rosebery

Avenue, E.C., and lately residing at 10, Lancaster Gate Terrace, London, W., manufacturer of wireless apparatus, etc.

The first meeting of creditors was held on August 6th at Bankruptcy Buildings, London, before Mr. F. Vyvyan, Official Receiver. The receiving order was made on the statements of the liquidator of Fleetwood, Fowden, Simpson & Co., Ltd. (in voluntary liquidation), creditors for £1,571. The debtor, who formerly represented Fulham in Parliament, has not surrendered to the proceedings, and nothing was known as to his present movements.

A resolution was passed for Mr. E. H. Hawkins, I.A., to act as trustee and administer the estate in bankruptcy.

Richard Dring, 257, Freeman Street, Great Grimsby, and 52, High Street, Cleethorpes, wireless engineer, etc.

Gross liabilities of £2,553 12s. 8d. against assets of £1,496 9s. 4d. were disclosed in the statement of affairs produced at the public examination herein, held on August 7th at the Town Hall, Great Grimsby. It would seem that the debtor commenced trading in 1923, with a capital of only a few pounds. He discontinued that concern in the following year, and commenced as an electrical engineer, without capital. He obtained stock on credit and made the shop fittings and fixtures himself. He entered into a verbal partnership after eighteen months, he providing the stock of about £150, and his partner becoming responsible for rent, rates and general expenses. Some nine months later, however, the debtor withdrew from the partnership and removed about £70 worth of stock, the balance being bought by the late partner. The debtor took over the business again subsequently, exclusive of stock. Capital was obtained on an overdraft of £550 guaranteed by a relative, for which guarantee the debtor paid £1 per week. The only books of account kept were debtor's ledgers, day and duplicate invoice books. There had been no record kept of receipts and payments. In 1927 his turnover was £2,500; £3,000 the following year; and £4,500 in 1929. He became aware of his position twelve months ago. The hearing was adjourned.

The following are some of the creditors:

Aeonic Radio, Ltd., London	£14
Bankers, Grimsby	610
British Thomson-Houston Co., Ltd., Rugby	16
Brown Bros., Ltd., London	38
British Radio-Gramophone Co., London	17
Beadle, T., & Co., Ltd., Hull	232
Brown, Ltd., S. G., London	46
Cossor, Ltd., A. C., London	25
Dyson & Co., Ltd., J., Bradford	162
East London Rubber Co., Sheffield	26
Edison Swan Electric Co., Ltd., Middlesex	112
Efandem Co., Ltd., Wolverhampton	86
Fuller Accumulator Co. (1926), Ltd., Chadwell Heath	74
Flinders (Wholesale), Ltd., Colchester	12
General Electric Co., Ltd., Newcastle-on-Tyne	143
Kolster-Brandes, Ltd., Sidcup	33
Lissen, Ltd., Isleworth	41
Marcophonophone Co., Ltd., Essex	24
Mullard Wireless Service Co., Ltd., London	17
Nesper, D., Ltd., London	16
Pertrix, Ltd., London	11
Phillips Lamps, Ltd., London	17
Steam Electric Co., Ltd., London	126
Sheffield Radio & Electric Co., Sheffield	159

C. W. C. Oliver, lately of 60, Newington Green Road, and 10A, Manor Parade, Finchley, N.3, wireless dealer.

The statutory first meeting of creditors in this failure was held on August 7th at Bankruptcy Buildings, Carey Street,

British Homophone Accounts.

THE accounts of the British Homophone Co., covering the period from May 22nd, 1928, to May 31st, 1929, show that profits on sale of investments amounted to £15,732, while interest receipts amounted to £2,163. After meeting the trading loss for the period (£29,097), depreciation written off investments (£15,225), and other outgoings, there was a net loss transferred to the balance-sheet of £20,577. The accounts for the period June 1st, 1929, to February 28th, 1930, show that interest receipts amounted to £3,693. The trading loss, after charging all expenses, depreciation, and so on, was £188. Miscellaneous outgoings amounted to £2,373, and with £5,625 reserved for contingent payment under agreement of March 29th, 1928, between Gramophone Records, Ltd., and Mr. A. F. Sykes, the total outgoings amounted to £8,186., leaving a loss of £4,493, which increases the deficit as at February 28th last to £34,070. The directors state that it is intended to make future accounts up to March 31st in each year. The company's subsidiary, Ebonestos Insulators, Ltd., has made a profit during the period under review, and the Sterno Manufacturing Company has made a small loss after writing off certain exceptional depreciation. A meeting was held on August 15th.

Committee's Reports.

At the annual meeting of the company, held last October, a committee of shareholders was appointed to investigate the affairs of the company. This committee has now issued "majority" and "minority" reports. The "majority" report was originally signed by five members, but two have since decided to have their names deleted and have signed the "minority" report.

At the conclusion of the long "majority" report it is stated that the committee has recommended to the directors that the Shaftesbury Avenue premises should be closed down and that the policy of continuing other branches, with the exception of Liverpool and Birmingham,

should receive attention. After carefully considering the whole position the committee is satisfied that with normal growth and sound management the company could be carried on easily without further losses. With regard to the board of directors, the committee has been informed that Mr. G. R. Hall-Caine, on medical advice, intends to vacate his position as chairman. With regard to the remaining directors, the committee cannot recommend the continuance in office of any directors other than Messrs. Sternberg and Stone, who are also executive officers of the company. The committee is of the opinion that the board should be effectively strengthened. It also recommends that: (a) all alterations in the book value of the company's assets due to revaluation be written back; (b) the development expenditure in connection with the long-playing record, the items of licences and trade marks and preliminary expenses be written off; (c) at the appropriate moment the capital of the company be reduced, and that the above items and any other dead assets and accumulated losses be written off if not then already dealt with; (d) the directors' fees should be reduced to £100 per annum; and (e) in view of the small profit from the manufacture of gramophones and of the space occupied by this part of the business, the advisability of continuing such manufacture, or alternatively, the reorganisation of this section be considered.

The directors of the company have also issued a circular in which it is stated that so far as the board is aware the recommendations of the committee are, generally speaking, a *résumé* of the board's intentions as disclosed to the committee, while the "minority" report states that the inquiry would have served the shareholders' interests more materially had it been conducted more on a constructive line than with a view to emphasizing past mistakes.

A further circular has been issued by Messrs. Sternberg and Stone.

W.C., before Mr. E. Parke, Official Receiver. The debtor states that in December, 1928, he raised £500, and began business as a wireless and gramophone dealer, at 60, Newington Green, under the style of A. G. Brown & Co. The trading proved successful until that period, 1929, when it felt the effect of severe price cutting in the neighbourhood, with the result that his trade fell off. He continued only with the charging of accumulators. In November, 1929 he opened a branch shop at Manor Parade, Finchley, under the style of the Ideal Stores, but the trade there proved very disappointing. In May last he removed the stock to Newington Green, and closed the premises. About the same time the effects at the latter premises were sold under an execution, and the trading came to an end. The debtor shortly afterwards filed his petition because of pressure by creditors. He estimates his liabilities at £700 against assets valued at £320.

The meeting was adjourned for one week with a view to the appointment of a trustee.

Business Names Registered.

Particulars are given below of wireless and allied businesses recently registered at Somerset House under the Business Names Act of 1916. The name appearing in bold type is the trading name, while in brackets are given the name of the proprietor (or proprietors) and the date of the registration. No information is, of course, given in the register with regard to the trade status of the concerns referred to.

The Putney Electrical Co., 187, Putney Bridge Road, Putney, S.W., accumulator charging and repair. (Arthur W. Hunt, Hollywood House, Parkside, Wimbledon Common, S.W.19, and Frederick W. Adams, 27, Bishops Road, Fulham, S.W.5. March 27th, 1930.)

Liverpool & Birkenhead Radio Supplies, 2A, Woodville Road, Birkenhead, wireless wholesalers. (Handel A. Atack, 442, Borough Road, Birkenhead. April 3rd, 1930.)

R. W. Bloodworth, 406A, High Street, Cheltenham, wireless engineers. (Raymond W. Bloodworth, Lydart, Priory Street, Cheltenham, and Wakefield B. Evans, Pinehurst, Lyefield Road, Cheltenham. April 5th, 1930.)

Radio Mart, 3A, New Oxford Street, London, W.C.1, wireless and electrical dealers. (Lawrence Cowen, 89, Edgware Road, London, W.2. April 8th, 1930.)

M.G.C. Radio Installations (1930), 18, Hawstead Road, Carford, S.E.6, wireless repair and installation work. (Malcolm G. Cooper, address as above. March 7th, 1930.)

Clark & Son, 8, Hyde Road, Paignton, wireless and electrical dealers. (Harris Cove-Clark, address as above. April 3rd, 1930.)

TRUPHONIC RADIO, LTD.**First Meetings.**

THE statutory first meetings of the creditors and shareholders of Truphonic Radio, Ltd., 121-3, Rosebery Avenue, E.C., and Truphonic House, Hanover Park, Peckham, S.E., were held on August 8th at the Board of Trade Offices, Carey Street, W.C., before Mr. E. T. A. Phillips, Official Receiver.

The chairman reported that the company was incorporated as a public company on February 4th, 1929, with a nominal capital of £75,000 divided into 750,000 shares of 2s. each, and was formed to enter into certain agreements with Truphonic, Ltd., Mr. George Ernest Spero and Mr. Joseph Henry Benjamin, and to carry on business in connection with radio and electrical apparatus and the like. The issued capital was £65,000 representing 425,000 shares issued for cash and 225,000 shares allotted in part payment of the purchase consideration.

By agreements dated February 5th, 1929, the company acquired the business of Truphonic, Ltd., together with leasehold premises, 121-3 Rosebery Avenue, and 342, Regent Street, London, with the full benefit of all subsisting policies of insurance and all trade marks. It also acquired from Mr. Spero letters patent relating to a new type of loud-speaker and the benefit of certain improvements and designs relating to receivers and loud-speakers. The purchase consideration was agreed at £22,500 in fully paid shares.

At a board meeting held on April 14th, 1930, it was reported that the sales were very unsatisfactory, and that for three months up to March 31st, 1930, only approximately 800 instruments had been sold. The trading accounts showed for the period October 1st, 1928, to February 28th, 1930, a turnover of £78,480, a gross profit of £12,242, but a net loss of £21,405. The chairman added that in May last, following pressure by creditors, Mr. E. D. Basden, C.A., was appointed Receiver on behalf of the debenture holders. That gentleman was proceeding with the realisation of the assets and it was doubtful whether any surplus would be available.

The failure of the company was attributed to shortage of working capital owing to the £10,000 liability of Mr. Spero to the company, to unprofitable contracts made by Mr. Spero when he was managing director; loss of credit and to the royalty dispute to general depression in trade owing to the Hatry collapse and general election, and to the flooding of the market with cheap "junk" sets. The chairman said a draft statement of affairs had been prepared showing assets valued at £13,498, and after satisfying the debenture claim of £11,724 there might be a balance of £1,635 to meet the costs of the liquidation and the claims of the unsecured creditors returned at £4,204. The chairman agreed that the directors had not exercised proper control. The unfortunate fact was that Dr. Spero was not available, and the department was without his explanations.

The liquidation was left in the hands of the Official Receiver.

BUSINESS ITEMS.**Grosvenor Electric Batteries, Ltd.**

In order to clear up any misconception that might possibly arise as the result of our notice in Gazette News last week concerning the Grosvenor Battery Co., Ltd., we have been asked to point out that the winding-up referred to is purely formal. This is due to the fact that the company is now a public concern, trading under the style of Grosvenor Electric Batteries, Ltd., at the same address in White Street, London E.C.2.

In a statement on the position issued this week the company point out that "the new capital of Grosvenor Electric Batteries, Ltd., has been invested in wide extensions and improvements to the factory, and in the installation of the most up-to-date battery making plant for the production of the new Grosvenor 'Straight Line' H.T. battery."

A Correction.

We regret that we were rather misinformed regarding the facts in the paragraph dealing with Mr. Norman Phelps, the Brighton trader, in our Provincial Trade Notes last week. It was stated that Mr. Phelps had recently removed from 54, Queens Road, Brighton, to 52, Upper Gloucester Road, Brighton. Exactly how this misconception arose we are not aware, but it should be made clear that the premises at 54, Queens Road, are occupied by the wholesale firm known as the Henderson Wireless and Electrical Service, while Mr. Phelps carries on an exclusively retail business at Upper Gloucester Road.

Price of Mullard Pentodes.

Readers are asked to note that a rather serious error occurred in the Mullard advertisement on page 27 last week, relating to the PM22, PM24 and PM26 pentode valves. The price of these was given as 20s. each, but actually, of course, they retail at 22s. 6d.

Maurice Sanger's New Premises.

Mr. Maurice Sanger, the wholesaler, of 27, King Street, Plymouth, informs us that he has acquired larger and more commodious premises at 30 and 31, King Street. Extensive alterations are being made, and it is hoped to open these new premises on Monday, September 1st. As in the past, Mr. Sanger is confining himself solely to radio and can offer dealers quick service.

A Hobday Announcement.

Hobday, Bros., Ltd., the London, Wolverhampton and Manchester factors, have asked us to draw the attention of their customers in Wiltshire and Gloucestershire to the fact that Mr. G. S. Howell, of Bristol, has ceased to represent the company in any capacity whatever. Customers in those counties are therefore requested to send all orders and other communications to their depot.

A Notice.

We have been asked by Hoare & Jagles, Ltd., who were the makers of the original "Rolls" portable, to announce that they are no longer interested in Rolls-Caydon Sales, Ltd. They are now operating as Rolls Radio, at 138, St. John Street, Clerkenwell, E.C. (telephone: Clerkenwell 8619).

Is This You?

Quite recently Varley received an enquiry from a trader in Wallasey, Cheshire, asking for details of their newly introduced hire purchase scheme. Unfortunately, the gentleman in question omitted to include his name and address in his letter.

Should this note meet the eye of the Wallasey dealer concerned, it is requested that he write again to Varley, at 103, Kingsway, London, W.C.2.

K-B's New Show Cards.

Kolster-Brandes are distributing to every one of their authorised dealers a complete set of attractive cut-out show-cards, representing a modern young girl and suitable for display behind K-B sets. Dealers who require further supplies can obtain them from their local K-B depot.

Extensions in Sheffield.

C. E. Needham & Bro., Ltd., of Sheffield, have, we hear, completed extensions which give their wireless department in Milk Street three times the floor space it had last season. A well-stocked showroom is now available to the trade.

For Publicity by Post.

Ferranti, Ltd., have made available to the trade a small folder, printed in colour on thin card, describing their well-known A.C. mains 3-valve receiver and moving-coil speaker.

This folder is intended particularly for enclosure with letters, or for mailing with accounts and similar communications. It is readable—an important point—and is tasteful in design. Copies can be obtained on application to Ferranti's radio department at Hollinwood, Lancashire.

Electric Trucks by "Polar."

To many radio manufacturers the electric trucks produced by Wingrove & Rogers, Ltd., especially suitable for transporting heavy loads between departments and buildings, will need no introduction. Those who are not already acquainted with these trucks will find much to interest them in a descriptive booklet available from the firm's offices at 189, Strand, London, W.C.2.

Trucks are manufactured to carry loads from 5 cwt. to 5 tons, and all are very manoeuvrable. In fact, the manufacturers tell us that one of their small models will turn out of one 4-foot gangway into another gangway of equal width without any "shunting"! This same truck is economical in use, costing, it is claimed, but 6d. to run.

Loewe Products for Manufacturers.

Set makers in particular will be interested in the new 14-page booklet of components, just issued by the Loewe Radio Co., Ltd., of 4, Fountayne Road, London, N.15. Although all the prices given in the book are retail, Loewe quote special net prices to manufacturers.

It is impossible to mention all the apparatus detailed, but it will suffice to say that the list covers such products as fixed resistances, condensers, etc.

THE NUMBERS THAT MULTIPLY SALES



22/6 each

P.M. 22 2 volts

P.M. 24 4 volts

P.M. 26 6 volts

easy to sell
easy to remember.

MULLARD PENTODE

Exide

BATTERIES

FOR LOW TENSION

There is an Exide Low Tension Battery to meet every wireless need. For sets with a heavy current consumption recommend the Exide "C" series. For smaller sets with economical valves recommend the "D" series. For portable sets there is available a range of Exide Unspillable Batteries to suit every make of set.

Exide

Obtainable from Exide Service Stations or your factor.

Exide Batteries, Clifton Junction, near Manchester.

Exide

BATTERIES

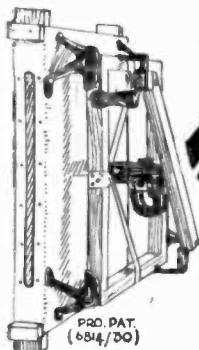
FOR HIGH TENSION

Exide High Tension Batteries are famous for their long life, steady output and low internal resistance. There is a capacity to suit every set from the smallest domestic set to the great public address amplifier. Each is supplied in convenient 10-volt units and in complete batteries in wood crates. See that you have ample stocks for the coming season.

Exide

Exide Service Stations give service on **every** make of battery.

Branches at London, Manchester, Birmingham, Bristol and Glasgow.



A REVELATION! BETTER THAN MOVING-COIL.
The NEW 'APTUS' DOUBLE LINEN DIAPHRAGM SPEAKER WITH THE TONE CHAMBER

Hear it reproduce the rich bass notes without the over-emphasis of the Moving-coil Speaker. Operates from an ordinary valve set. Unlike the moving-coil speaker it requires no extra valves, batteries, transformers or mains connections. Rich low notes. Brilliant high notes. Clarity in speech. **THE IDEAL SPEAKER FOR PORTABLE AND RADIOGRAM. DOUBLE DIAPHRAGM.** Specially manufactured linen, treated and strained by our own process. **INDIVIDUALLY TESTED ON ACTUAL BROADCAST AND PICK-UP. DRIVING UNIT**—The finest super 4-pole balanced armature adjustable unit.

CHASSIS (as illustrated).
 22" x 22" ..£3 10 0 18" x 18" ..£3 2 6
 20" x 20" ..£3 5 0 16" x 16" ..£2 17 6

SPECIAL SIZES for Portable Sets to order. Without Unit, less 20/-.

TABLE MODELS (Oak). Mahogany 10 per cent. extra.
 22" x 22" ..£6 0 0 18" x 18" ..£5 0 0
 20" x 20" ..£5 15 0 16" x 16" ..£4 15 0

ART PEDESTAL CABINETS (Oak or Mahog.)
 22" x 22" ..£10 10 0 20" x 20" ..£9 17 6



NO IDLE CLAIMS.
NEW TYPE CABINET.
ATTRACTIVE TERMS.
SAMPLE SPEAKER WILL PROVE ITS AMAZING SUPERIORITY.

SEND FOR LIST OF PARTS AND FITTINGS, etc.
 "The Linen Speaker Specialists." **MOORE & CO., 101 & 103, Dale Street, LIVERPOOL.**
 Over 50 Years' Reputation. Works: Gresham Buildings. Phone: Cen. 5284. Grams: "Solutions."

A GOOD OMEN!

WHEN Manufacturers declare their New Season's Programme, it will be found that Belling-Lee products have been incorporated to an even greater extent than before.

Be guided by their wisdom.

BELLING-LEE FOR EVERY RADIO CONNECTION

PARFAIT THE PERFECT EBONITE PANEL ONE QUALITY ONLY THE BEST

SUPPLIED IN SIX FINISHES

Matt Semi-Polished Mahogany Highly Polished Black
 Cube Surface Highly Polished Mahogany
 Semi-Polished Black

Send for price list and generous trade terms
H. B. POTTER & Co., Ltd., Station Buildings, ROCHDALE.

SIMPLIFY YOUR ACCUMULATOR CHARGING

By using any of the following you can tell at a glance when your customer's accumulator was left, when it is being called for, and how much it will be, etc. No further book-keeping is needed.

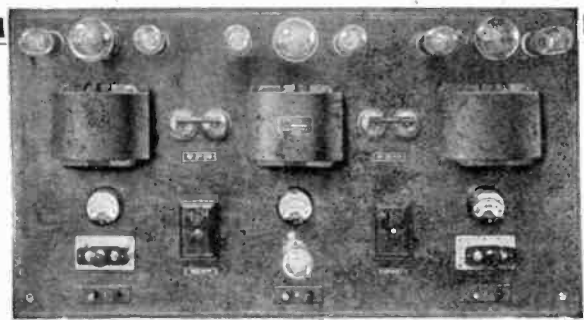
- ACCUMULATOR CHARGING TAGS**
 printed in 3 sections, 1 to be attached to accumulator, 1 to file for reference, 1 for customer. **5/9** per 1,000
- ACCUMULATOR CHARGING PADS**
 100 leaves in duplicate. **1/6** per Pad
- BOOKS OF 100 LEAVES**
 in triplicate with your name on each leaf. **21/6** 12 Books
 These are printed with all necessary details such as name, address of customer, when wanted, etc.
- TRANSPARENT LABELS**
 for fixing permanently to accumulators printed with your name and address **10/6** per 100

Postage on small Orders 9d. extra in U.K. only All Foreign orders must include sufficient to cover cost of postage

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TECHNICAL BOOK ISSUED FREE.
 A 49-page copy of the 3rd Edition (reprinted April, 1930) of the booklet entitled "Commercial Accumulator Charging and the Efficiency of A.C. Rectifying Equipments," in which 7 models of Davenport Chargers are both described and illustrated, may be had on application to your usual wholesaler, or direct from the manufacturers **FREE OF CHARGE.** This offer applies to bona-fide traders only.

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your guarantee

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REDUCED PRICES

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CAT. No.	DESCRIPTION	OLD PRICE	NEW PRICE
B.C. 3045	Portable Screen-Grid 4 Maroon Finish	23 gns.	20 gns.
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B.C. 3049	Portable Screen-Grid 4 Mahogany Cabinet	£26 0 0	£21 10 0
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We specialize in making all types of Coils to Manufacturer's Specification.

SEND US PARTICULARS OF YOUR REQUIREMENTS

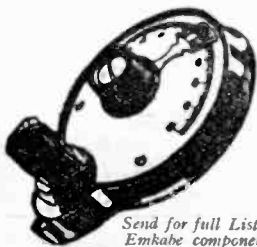
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5 GREAT CHAPEL STREET, W.1.

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because they have Accurate Geared Movement; Fast and Slow Motion; Fit any Condenser spindle.

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BAKELITE AND EBONITE

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The perfect fabric for gramophones, speakers, etc.

Write for samples and prices

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CONTACT FORMERS (NO PINS),
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Plug and Socket, new banana type . . . each 4d.
Spade End . . . each 3d. Wander Plug . . . each 2d.
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All Mains Socket and Plug each 6d.

Standard Colours: Red, Green, and Black

Descriptive leaflet free on receipt of p.c.

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THE "SKYLARK" UNIT
10/6
The Skylark Unit complete in Cabinet 27/6.

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The "Honesty" Speaker de luxe with exquisitely designed Oxidised Silver, Copper or Brass Repousse Grills—at prices ranging from £6 upwards.

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Bring your clients to
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"HONESTY" TRIPLE LINEN
DIAPHRAGM CONE

14" x 14" £2 18" x 18" £2-10-0
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The "KUKOO" UNIT will also be in evidence. With a copious supply of undistorted output, there is none to equal it, but the new "HONESTY" Type has been specially designed to function on much less adequate sets and yet give vast and pleasing volume.

The Gardner Permanent Magnet Moving Coil Speaker will again be in evidence, also our latest type Cobalt Moving Coil Speaker, the unique character of which will not be revealed to the public before the exhibition.

THE SHEFFIELD MAGNET CO.

Cobalt and Tungsten
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BROAD LANE, SHEFFIELD.

The Magnet is the life-blood of every Loud Speaker—it is no exaggeration to state that we have made millions of magnets.



Go round every Set—

WITH
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LOCK WASHERS or LUG TERMINALS
MADE FROM TEMPERED STEEL AND PHOSPHOR BRONZE

A new Locking Principle with a twisted tooth form which grips both the nut and the component and *never comes loose*. All connections made permanent and vibration-proof with a better contact. Eliminate loose connections, save assembly time and servicing, and improve your product by adopting SHAKEPROOF Lock Washers and Terminals which are being standardized in the Radio Industries.

NOTE THE POINTS WHERE POSITIVE CONTACT MUST BE RETAINED—FOR EFFICIENCY'S SAKE—FIT "SHAKEPROOF."

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WASHERS in STEEL or
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SHAKEPROOF Locking Terminals that combine Terminal and Lock Washer in one, cut out in one operation and give a better connection with ABSOLUTE SECURITY FROM VIBRATION.
SEND FOR SAMPLES & FOLDERS.



SAVE TIME

—TROUBLE
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2
4
OR
6
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PRICE
42/-
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PLUG in the valves—press the button, and the meter will indicate the condition of any valve. There are no calculations to work out. It is so simple to operate that no dealer or service man should be without a BULGIN DEALERS VALVE EMISSION TESTER.

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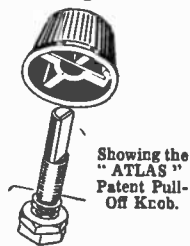
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Continuously variable from almost zero to 2 megohms and capable of carrying fully 10 watts. One-hole fixing. Patent Knob—no set screws. Keen prices for quantities. Send your enquiry without delay.

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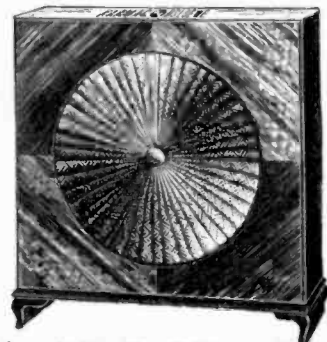


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LOEWE RADIO

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GOING concern. Owner giving up Radio business in Somerset town. Very small ingoing, low rental. Full particulars.—Box No. 1403, WIRELESS TRADER Office. (215)

TO wireless experts. Shop and house for sale in newly opened out district. Birkenhead; main thoroughfare; large population; excellent opening.—Apply Hughes & Jones, 19, Hamilton Square, Birkenhead. (202)

BUSINESS OPPORTUNITY.

AN opportunity. Advertiser, owner of freehold shop premises now vacant in main road of busy South London shopping centre, is willing to consider suggestions to open these premises as a wireless depot. Replies will be treated in every confidence.—Box No. 1406, WIRELESS TRADER Office. (207)

FOR SALE.

TO motor painters, repairers and cabinet manufacturers.—For sale, Cellulose spraying plant, complete with two gun outfit, exhausting system and D.C. motor. Practically new, cost £104. For sale cheap.—Kremner, 49a, Shudehill, Manchester. (B3)

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FLASH lamp batteries of unlimited guarantee, retail 3½d. Also H.T. batteries at very competitive prices.—Write for samples from direct importers. Sole agents required.—Humber Oil Co., 65, Washington Street, Hull.

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PARTNER urgently required. Old established manufacturers. Write fully. Also demonstrator for exhibition.—Write Box No. 1399, WIRELESS TRADER Office. (220)

PATENTS.

PATENTS obtained, trade marks and designs registered at home and abroad. Gee & Co., patent and trade mark agents, trade mark advisers to THE WIRELESS TRADER, H.T. P. Gee, Member Radio Society, Great Britain, A.M.Inst., Radio Engineers, 52-54, Chancery Lane, Holborn, W.C.2. Telephone: Holborn 7525.

The Basis of Successful Trading.

AN efficient weekly trade journal is one of the strongest foundations of every successful wireless business. Trade news—while it is fresh and can be acted upon to advantage; technical development, keeping you up-to-the-minute in your knowledge of the theoretical, constructional and experimental sides of the Industry: sales promotion schemes; shop and window display; the most saleable stocking lines; these are items with which every enterprising trader must keep in constant touch.

"The Wireless and Gramophone Trader" reflects all essential trade information. It has obtained the confidence and support of both readers and advertisers. Readers realise that no stone is left unturned to forward their interests by providing all necessary news and information; that "The Wireless and Gramophone Trader" is independent and unfettered in the expression of its views; and that full support is given by it to measures affecting the well-being of the industry. Naturally this reader confidence is reflected in the advertisement pages of "The Wireless and Gramophone Trader." Manufacturers and factors realise that advertisements are not only read but justify their cost by creating orders and repeat orders from its ever-widening circle of readers. That is why so many prominent firms are regularly represented in its pages. If you are contemplating selling your goods through the trade, you should get into touch with the Advertisement Manager, "The Wireless and Gramophone Trader," St. Bride's House, Salisbury Square, Fleet Street, London, E.C.4.

W.T.6G

Patents—continued.

KING'S Patent Agency, Ltd., 140A, Queen Victoria Street, E.C.4. Free advice and handbook on Patenting Inventions and Registering Trade Marks Designs. (S1)

SITUATIONS VACANT.

WANTED window-dresser and ticket writer for radio and gramophone business. S.W. district.—Box No. 1412, WIRELESS TRADER Office. (223)

TRAVELLERS with established connection with London factors and manufacturers required by manufacturers of a large range of components.—Apply stating experience, age and salary required to Box No. 1411, WIRELESS TRADER Office. (222)

WELL-KNOWN component manufacturer requires live agents calling upon factors and manufacturers in Scotland, South Wales, Manchester and North, Birmingham and Midlands, and South of England.—Applications in strict confidence, stating agencies held and terms to Box No. 1410, WIRELESS TRADER Office. (221)

WIRELESS engineer, first class man, with all-round knowledge of mains driven sets, accustomed to high and fast production.—Apply in confidence, stating salary and experience to Box No. 1409, WIRELESS TRADER Office. (200)

YOUNG man (single), take charge radio department. Thorough knowledge repairs, installation and acc. charging.—State wages, experience and references (Eastern counties) to Box No. 1407, WIRELESS TRADER Office. (206)

REPRESENTATIVES required in Manchester, Nottingham, Sheffield, Leeds, Hull and Liverpool areas to improve existing connections. Knowledge of H.T. eliminators and mains receivers an advantage. State technical knowledge and give fullest details in confidence. Car an advantage.—Box No. 1405, WIRELESS TRADER Office. (209)

RADIO. Experienced senior representative required to travel British Colonies possessing sound technical knowledge and ability to take control. Applicants must be single and prepared to remain abroad as required. Apply by letter only, giving full particulars and stating age, experience and salary required to Export Manager, Mullard Wireless Service Co., Ltd., Mullard House, 111, Charing Cross Road, W.C.2. (212)

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INVESTMENT. Live, well educated young man (30) requires responsible position. Qualified radio engineer, 14 years experience. Abreast of the most modern ideas in radio and electro-gramophonic practice.—Repairs and installations. Expert salesman. Opportunity to invest would be welcomed, but is not essential. Any locality, South Coast preferred.—A. Corbett, 22, Bloomsbury Place, Brighton. (218)

YOUNG man (25) desires situation London area as representative or in service dept. At present managing retail radio shop.—Box No. 1382, WIRELESS TRADER Office.



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Situations Wanted—continued.

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RADIO engineer opening office in Dublin, wishes to act as manufacturer's agent or representative in Irish Free State on commission basis.—Box No. 1401, WIRELESS TRADER Office. (217)

Practical Radio Designer and Production Man with early shop training and many years' experience with leading manufacturers in experimental and production work of loud-speakers and units, components and sets. Particularly qualified for supervision of skilled manufacture and assembly, also competent in mass production shops. Free immediately at reasonable salary.—Box 1400, WIRELESS TRADER Office.

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 P. Kay, 34 Craven Walk, N.16.

MANUFACTURERS' discontinued Stocks wanted. Any quantities.—Box No. 947, WIRELESS TRADER Office.

PROGRESSIVE dealer with small capital wants radio and gramophones (battery models). S.O.R.—Box No. 1404, WIRELESS TRADER Office. (214)

D.C. charger wanted, 150 V mains. Constant potential type preferred.—Fagin, Aldershot. (208)

NATIONAL cash register required in good condition and appearance for immediate use.—Post parties. to Box No. K97, Willings, 86, Strand, W.C.2. (204)

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and other vacancies on
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Applications are invited from gentlemen of experience with own car, giving full details of posts held and salary and expenses required.—Address in strict confidence to Managing Director, Hobday Bros. Ltd., Great Eastern Street, E.C.2.

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Write for Prices and Terms.
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Telephone: Victoria 3738.



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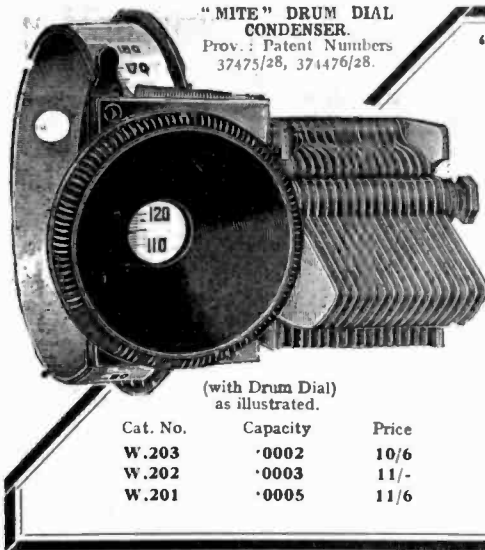
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W.T. 16/8/30

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The "Chakophone" range includes sets to meet the demand of every class of Radio Enthusiast. Portables... Suitcase and cabinet types. All electric two valve sets—Radiogramophones and components including the World famous "Eagle" Tuning Coil, H.T. Batteries, Etc. All sets are guaranteed and trade terms are very generous.

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5/3
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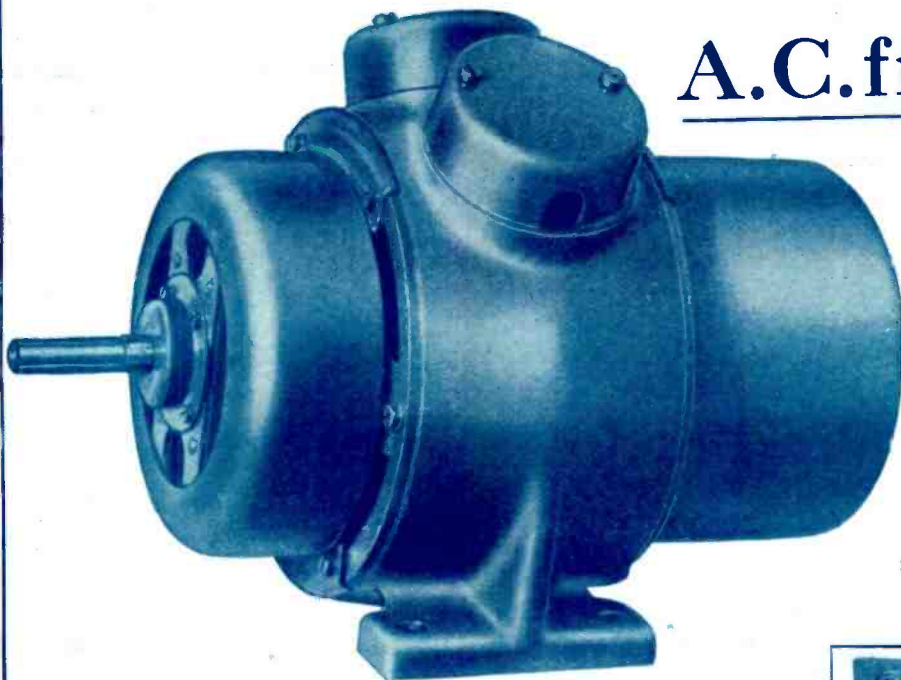
Written in a simple and practical way, this book will prove of great value to every Student of engineering and commerce, and all, in fact, to whom an intimate knowledge of the Slide Rule is necessary.
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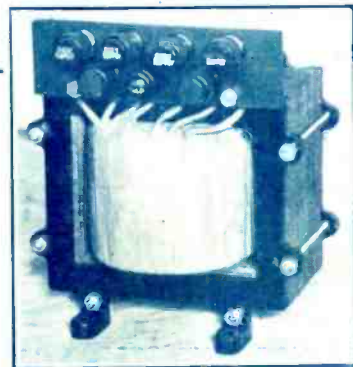
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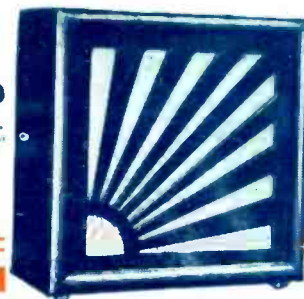
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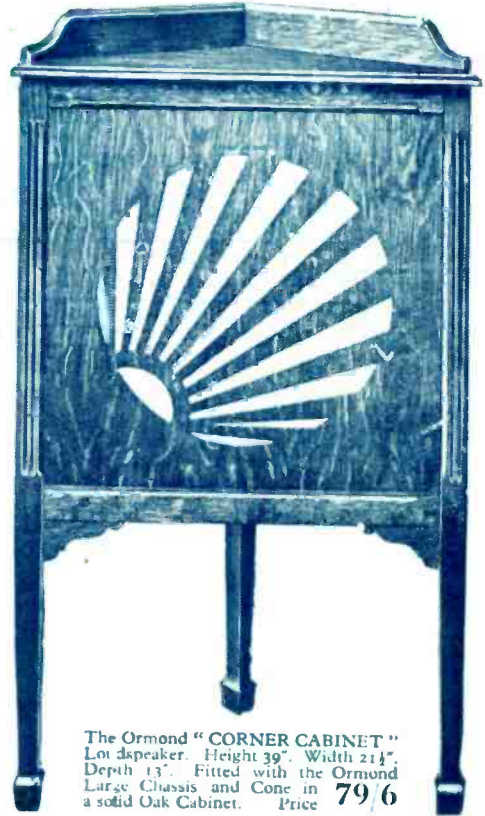
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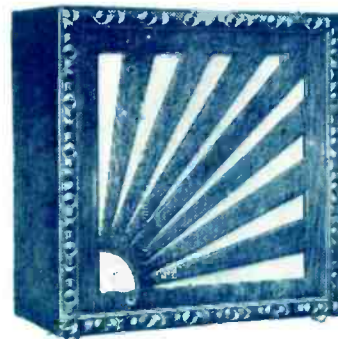


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