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# REFERENCE BOOK

WIRELESS DICTIONARY

AND LIST OF

AMATEUR CALL SIGNS

Edited by
BERNARD E.JONES
Editor

\*AMATEUR WIRELESS\*

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London, New York, Toronto, & Melbourne

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# THE "AMATEUR WIRELESS" REFERENCE BOOK

WIRELESS DICTIONARY

AND LIST OF

AMATEUR CALL SIGNS

Edited by BERNARD E. JONES

Editor of " Amateur Wireless," etc.,

CASSELL AND COMPANY, LTD London, New York, Toronto and Melbourne

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## "AMATEUR WIRELESS" REFERENCE BOOK

Compiled by the Technical Staff of "Amateur Wireless."

#### **AERIALS AND EARTHS**

OUTDOOR aerials are of two main types, the inverted L-type (Fig. 1) and the T-type (Fig. 2). The question of which type of aerial to be adopted is usually decided by the position and shape of the house and by the size of the garden.

The Inverted L-Aerial.—This type has distinct directional properties. For maximum signal strength the

arm will have its own natural wavelength, and sharp tuning will be impossible. The T-aerial has directional properties in both directions. That is, if the aerial is running north and south reception from a northern station will be equal to that from a southern station, provided, of course, that these stations are at an equal distance away.

The Cage Aerial.—Where an aerial

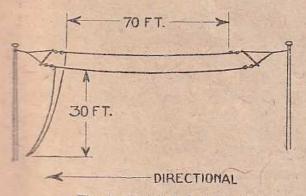


Fig. 1.—Inverted L-Type Aerial.

35FT. 35FT. >
30FT.

Fig. 2.—T-Type Aerial.

aerial should be erected in a direct line with the direction of the broadcasting station, with the lead-in end marer to the station than the free end. For very short wavelengths a singleme inverted L-aerial is very efficient, while for higher wavelengths a twinme aerial of the same type is recom-

The T-Aerial.—With this aerial the important consideration is that should be of equal length.

The T-Aerial.—With this aerial the important consideration is that important consideration is that it is a should be of equal length.

with a large self-capacity (as for transmitting) is desired, it is usual to construct one of the "cage" or "sausage" type. This aerial is inefficient for reception of low wavelengths, and is primarily intended for transmitting purposes.

Natural Wavelength.—The natural wavelength of an aerial of the usual form may be taken as 4.5 times its electrical length (Figs. 1 and 2). Thus a standard 100-ft. aerial has a natural wavelength of 450 feet; that is, 137

metres approximately. The average aerial capacity is 0003 microfarad.

Regulations.—The Postmaster-General's regulations concerning aerials contain the following: Length (i.e. span plus lead-in) must not exceed 100 ft.; height must not exceed 100 ft.

An aerial, however, may contain several wires, say 70 ft. long, with a lead-in of 30 ft.

Frame Aerials.—The advantage of a frame aerial lies in the marked directive properties it possesses. Powerful reactive circuits may be used in conjunction with them without fear of serious interference. Provision should be made for the frame to rotate so that any position may be taken up. Following is a table of winding data and corresponding wavelengths for a frame aerial having sides each measuring 2 ft. A variable condenser of .0005 microfarad capacity must be connected in parallel with the aerial. The wire used for winding on the frame is 22 s.w.g. or 24 s.w.g., enamelled, and each turn spaced 5 in. from the next.

Min. Wavelength	Turns	Leigth of Wire
180 Metres	6	50 feet
300 ,,	6 9	74 ,,
500 ,,	12	98 ,,
600 ,,	15	122 ,,
700 ,,	18	146 ,,
800 ,,	21	170 ,,

For higher wavelengths a larger frame will be required. The table in the next column is suitable for frames having each side 4 ft. in length.

#### COILS

Conductor Characteristics.—When any two insulated current-carrying wires are brought close together they form the plates of a condenser whose

Turns	Space between turns	Wire	Wavelength with con- denser in parallel
25 30 60	1 inch -	enamelled	1000 1500 2500

capacity depends upon (1) the size of the wires, (2) the difference of potential between them, (3) the distance for which they run side by side, (4) their

proximity to one another.

Single-layer Coils. — The singlelayer inductance consists of turns which lie very close together. The end to which the aerial is attached is at a high potential, the earth end at low potential. There is therefore a considerable difference of potential between the first turn and the last. But between the first and second turns, which run side by side, the difference is very small indeed; hence capacity between them is at a minimum. In the single-layer coil each turn is separated by a considerable distance from those whose potential is appreciably different from its own. For this reason this type of coil is particularly efficient. Its only drawback is its bulkiness.

Slab Coils.—If having wound 100 turns on to a tubular former from left to right, a second layer containing the same number is put on, working backwards from right to left, turn No. 200 will lie immediately over turn No. 1. There is the greatest possible difference of potential between these two turns, and they lie close together for their whole length; hence the capacity between them is large. It will also be big between No. 199 and No. 2, and so on.

The object of the coil designer must be to keep turns between which there is a large potential difference as far apart as possible and to separate adjacent turns if he can. By so doing he will keep self-capacity low.

Basket Coils.—One solution of the problem, and a fairly successful one, is seen in the basket coil, the flat narrow inductance sometimes called

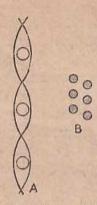


Fig. 3.—Plan and Section of Basket Winding.

the pancake or the spider's web. Here the winding takes the form of a spiral put on to a former shaped like a wheel minus the rim, the wire being woven in and out of the "spokes," just as a basket maker lays on his withes. A glance at one of these coils will show that turns between which there is a big difference of potential are as far as possible apart. The first turn is near the centre, the last at the circumference of the coil. Secondly, no two turns lie closely side by side. They are separated at one point by the width of the spokes, then they approach, cross at an angle and diverge again. Thirdly, adjacent layers are not in contact. Owing to the criss-crossing layer No. 2 separates No. 1 from No. 3 by an air space. Unfortunately the basket coil is a flimsy affair which cannot stand by itself. Manufacturers stiffen it by dipping it into paraffin-wax or shellac, thus doing away with the air space between turns and replacing this by a dielectric with two or three times the value of air. Thus they reduce selfcapacity by the method of winding and increase it by dipping the coil. The best baskets are those wound on formers which are left in place; no dressing is then needed and the full benefits of the design are obtained. This point should be borne in mind.

Baskets are not suitable for wavelengths over about 3,000 metres. Above this size they become unwieldy unless they are made of very fine wire, which adds an undesirable amount of resistance. Various modifications of the basket idea have been designed to meet the difficulty. The basket has only one turn to the layer. Looked at from above its windings appear as seen in A (Fig. 3). In section they are as in B (Fig. 3).

Lattice Winding.—The lattice-wound coil A and B (Fig. 4) is broader, and therefore contains far more wire than the basket if the two are of equal diameter. It is a kind of cross between the basket and the single-layer inductance. Its first layer consists of, say, fifteen turns wound side by side. The sixteenth turn is a zigzag running right round the coil. The seventeenth is wound straight over the

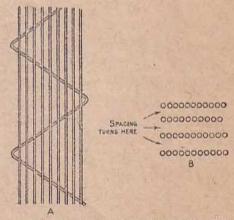


Fig. 4.—Plan and Section of Lattice Winding.

first, the eighteenth over the second, and so on until the thirty-first is reached. The thirty-second is again a zigzag turn.

In this type of coil the first fifteen turns are exactly like those of the single-layer inductance, and have the same low capacity. The sixteenth crosses all of them, but it does so at an angle, therefore there is little capacity between it and any of them. The seventeenth turn (not the thirty-

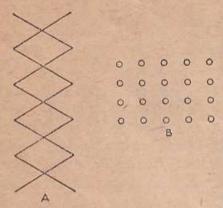


Fig. 5.—Plan and Section of Honeycomb Winding.

first, as would be the case in a plain double-layer coil) lies over the first, but it is separated from it by an air space equal to the diameter of the wire in the zigzag spacing turn as will be evident from a careful study of the diagrams Fig. 4 (A and B).

Honeycomb Coils.—The next step was to make all the turns zigzag, each acting as a separator for the others. This kind of winding produces the honeycomb coil shownin Fig. 5, A. Honeycomb coils can be distinguished in a moment from others if they are looked at from above. Each zigzag turn is immediately over the one that precedes it; hence the spaces between turns look like the cells of a beehive save that they are diamond-shaped instead of hexagonal. It is possible to see right down to the core beneath. The honeycomb is a very good coil, for it gives air-spacing between both turns and layers. It has, however, the drawback that when its windings are seen in section (Fig. 5, B) the turns form vertical rows. The space between them is therefore only equal to the diameter of the wire used. It was found that self-capacity could be considerably reduced by making a small improvement.

Duclateral Coils.—This improvement, which consists in winding successive layers so that they are not immediately over those below them, produced the duclateral inductance seen in Fig. 6, A. In this drawing the heavy lines represent the turns of the outer of two layers, the dotted lines those of the one below it. When a duclateral coil is viewed from above, the cells noticeable in the honeycomb type are not to be seen. The wires appear to be interwoven like the threads in a very coarse piece of sacking.

The effect of winding inductances in this way is to "stagger" the turns when seen in section. Fig. 6, B will make this plain.

Tuning Coil Data.—A table of winding data for coils of the honeycomb, duolateral, lattice, and basket types is given on p. 9. The approximate wavelengths are given in the first column.

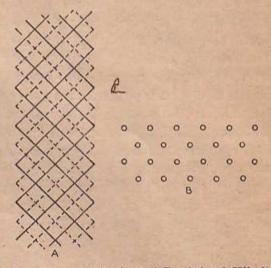


Fig. 6.—Pian and Section of Duolateral Winding.

Suitable formers for the above coils would be 2 in. diameter and 1 in. long.

Cylindrical Coils.—The table (p. 10) gives the wavelengths of "solenoid" or single-layer cylindrical coils. One

of these coils may be wound to a desired wavelength and tappings taken off at any particular intermediate wavelength required.

coil (the secondary) sliding in and out of the primary. Both coils should be tapped, and two variable condensers of 0005 microfarad placed across

TABLE OF COIL	WINDINGS
Primary Coils With 001 mfd. con-	Secondary Coils With .0005 mfd. con-

Wavelength	With -001	ry Coils mfd. con- n parallel	With .000	iry Coils 5 mfd. con- n parallel	Reaction Coits		
	Turns	S.W.G. (d.c.c.)	Turns	S.W.G. (d.c.c.)	Turns	S.W.G. (d.c.c.)	
300 - 500 $500 - 800$ $900$ $1,100$ $1,600 - 2,200$ $3,000$	35 50 75 100 200 250	26 26 26 28 28 28 28	50 75 150 150 250 400	26 26 28 28 28 28 30	75 75 150 200 200 250	26 26 28 28 28 28 28 28	

Variometers. - Windings for broadcast wavelength ranges are given in the following table of dimensions, etc.

primary and secondary coils, one across each. The table gives particulars of useful sizes.

### Particulars of Loose-Couplers

Primary Coil		No. of	S.W.G.			ary Coil	No. of	S.W.G.	Turns	Approx.	
Length	Diameter	Turns		per tap	Length	Diameter	Turns	10.17.tx.	er tap	Wave- length	
4 4 12	3 4 7	80 150 500	22 d.e.e. 28 d.e.e. 28 d.e.e.	8 15 50	4 4 12	2½ 3 6	140 200 850	26 d.e.e. 32 d.e.e. 30 mam'lec	14 20 85	To 500 To 1,000 To 6,000	

The formers may be ebonite or cardboard.

SI	ator ·	Rotor			
Diameter	Turns of	Diameter	Turns of		
in inches	No. 24 d.c.c.	in inches	No. 24 d.c.c.		
3½	45	2½	50		
4	38	3			
41	34	31	42 38		

Loose-Couplers.—A loose-coupler is a very efficient and selective tuner. The usual arrangement is to have one

Inductances in Series. For inductances in series the total inductance is equal to the sum of the individual inductances:

$$L = L_1 + L_2 + L_3 + etc.$$

Inductances in Parallel.-For inductances in parallel the total inluctance L is found thus

$$\frac{1}{L} = \frac{1}{L_1} + \frac{1}{L_2} + \frac{1}{L_3} + \text{ etc.}$$

where  $L_1$ ,  $L_2$ , and  $L_3$  are the individual inductances.

Inductance of Single-layer Coils.

—This may be found approximately from the formula:

L (mics.) = 
$$\frac{(5 \times D \times T)^2}{W + \frac{D}{3}} \times \frac{1}{1000}$$

of the circuit is :0013 microfarad (:001 + :0003 = :0013). Similarly the inductance of the aerial must be added to the inductance of the coil. The self-capacity of the coil may be neglected.

#### WAVELENGTHS OF CYLINDRICAL COILS

No. of Turns of No. 24 s.w.g.		Diameter of Coil in Inches									
namelled copper wire	2	2.4	2.8	3.2	3.6	4	4.4	4.8	5.2	5.6	6
10	130	135	140	140	148	153	158	162	165	170	178
20	180	195	205	220	230	241	255	266	280	295	307
30	230	250	275	295	315	335	555	275	390	420	440
40	270	300	330	355	385	410	440	370	500	525	560
50	315	350	385	415	455	490	520	535	590	625	666
60	355	400	440	495	520	-560	600	650	690	730	770
70	390	435	485	535	580	630	675	725	775	825	87.
80	430	480	535	590	650	700	750	805	855	910	964
90	465	520	580	640	695	750	805	865	125	985	1,050
100	490	535	620	685	745	800	870	935	1,000	1.072	1.140
110	525	590	660	730	790	860	935	1,002	1,072	1,145	1,21
120	555	630	705	775	845	920	1,000	-1,075	1,150	1,225	1,30
130	580	660	730	800	875	955	1,040	1,125	1,210	1,295	1,37
140	605	685	755	825	003	990	1.080	1,175	1,270	1.360	1,45
150	630	720	800	875	965	1,045	1,140	1,235	1,335	1,430	1,52
160	655	750	835	920	1,010	1,105	1,200	1,295	1,400	1,500	1,600
170	675	790	855	955	1,045	1,137	1,240	1,345	1,450	1,560	1,670
180	700	795	890	985	1,080	1,170	1,280	1,395	1,505	1,620	1,740
190	720	830	925	1,020	1,120	1,225	1,342	1,460	1,572	1.687	1,810
200	740	850	960	1,060	1,165	1,280	1,405	1,520	1,640	1,755	1,880

$$\label{eq:where} \text{where} \begin{cases} D = \text{diameter in inches} \\ T = \text{number of turns} \\ W = \text{length in inches of portion} \\ \text{wound.} \end{cases}$$

Wavelength.—The wavelength of a tuned oscillatory circuit may be found thus:

Wavelength in metres =  $1885 \times \sqrt{C \times L}$ 

C = capacity of circuit (microfarads)

L = inductance of circuit (microhenries).

If the aerial has a natural capacity of .0003 microfarad and the aerial-tuning condenser (in parallel) has a capacity of .001 microfarad, the total capacity

#### CONDENSERS

Fixed Condensers.—The following data will be useful to the amateur who builds his own condensers. A table on p. 12 gives the No. of copperor tin-foil plates and their dimensions to give the required approximate capacity in the first column. Mica '002 in. thick is used.

Capacity of Fixed Condensers.— The capacity of a fixed condenser may be found from the formula:

$$C_{\text{mfd.}}) = \frac{A \times K \times N}{50000d \times 900}$$

K = dielectric constant (see table on p. 12)

N = number of dielectrics

A = area of overlap of 1 plate in square inches

d = thickness of dielectric in inches. Best ruby mica should be used for the dielectric. The mica should be '002 in. thick.

Specific Inductive Capacity.—The property of a dielectric by virtue of which it is able to store electrical

of plates. Thus a variable capacity may be obtained.

The plates are usually of aluminium and of No. 22 s.w.g. Spacing washers may be obtained in thickness varying from  $\frac{1}{8}$  in. to 067 in. The former thickness is the more usually encountered. Fig. 7 shows the standard dimensions of fixed and moving plates.

TABLE OF USEFUL DATA FOR COIL WINDING

rid	er in	al area	ance in per yard deg. F.	re in r 16.	per ohm.	n B.	1 9		Tu	rns per	inch		1 91
Standard	Diameter inches	Sectional in square inches	Resistance in others per yard at 80 deg. F.	Resistance in chins per lb. at 60 deg. F.	Lb. per	Weight in per 1,000 yards	Yards per	Enamel	Single	Double silk	Single	Double cotton	Standard wire gauge
10 11 12 13 14 15 10 17 18 19 20 21 22 23 24 25 20 27 22 28 30 31 32 24 35 36 36 36 37 38 38 39 40 40 40 40 40 40 40 40 40 40 40 40 40	116	-012870 -010570 -008495 -006648 -005027 -003217 -002463 -0011810 -001257 -001018 -0006158 -0004524 -0003142 -0002545 -0002112 -0001720 -0001453 -0001208 -0000986 -0000986 -0000454 -0000865	**O01868** **O02275** **O02831** **O03617** **O04748** **O05904** **O07478** **O09762** **O1328** **O1913** **O2362** **O2990** **O3905** **O5313** **O6324** **O7653** **O9448** **O1138** **1398** **1655** **1991** **2275** **2625** **3061** **3617** **4338** **5300** **6620** **503** **1-32** **1-328** **1-328** **1-581** **1-913** **2-362** **2-989** **3-904**	0 0200 0280 0550 0820 1400 2021	83·3 50·0 35·7 18·1 12·2 7·14 4·95 2·38 1·56 ·757 ·497 ·309 ·0471 ·0309 ·0471 ·0309 ·0215 ·0141 ·0101 ·0069 ·0054 ·0040 ·0029 ·0023 ·0014 ·00098 ·00064 ·00098 ·00015 ·000156 ·000015	148 · 8 122 · 2 98 · 22 76 · 86 58 · 12 47 · 08 37 · 20 28 · 48 20 · 92 14 · 53 11 · 77 9 · 299 7 · 120 5 · 231 4 · 395 3 · 632 2 · 942 2 · 442 1 · 989 1 · 680 1 · 396 1 · 298 1 · 686 6 · 6408 5 · 5254 4 · 4199 9 · 3269 • 2456 • 2092 • 1758 • 1453 • 1177 • 0929 • 0712	6.67 8.16 10.23 13.00 17.16 21.23 26.86 35.00 47.66 68.66 85.00 107.6 140.6 191.6 228.3 275.3 340.0 410.0 503.0 596.8 716.6 820.0 943.3 1100 1300 1556 1903 2380 3056 4768 5700 6866 7500 10766 14066	15·0 17·1 19·8 23·7 26·1 29·4 33·3 38·8 42·1 46·0 50·6 55·9 61·4 66·2 73·3 77·8 88·9 98·0 106 116 128 143 168 180 194 211 230 253 282	149 159 169 191 206 225	1 8-36 5 9-22 10-4 11-8 13-1 14-6 16-5 19-4 23-0 26-3 28-3 28-2 31-8 36-4 40-0 43-5 47-6 51-6 51-6 56-2 60-2 67-1 70-9 85-5 91-8 102 110	8.0€	8·69 8·48 9·43 10·6 11·6 13·2 14·7 17·2 20·0 21·7 23·8 26·3 29·4 81·3 33·3 33·7 37·9 40·2 44·7 46·3 50·5 52·6 64·1 67·6 47·8 75·8 78·1	10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 33 34 35 36 37 38 39 40 41 42 44 44 44 44 44 44 45

energy is known as its "specific-inductive capacity." This is usually denoted by the letters S.I.C. Another name for S.I.C. is "dielectric constant." (See table on p. 12.)

Variable Condensers.—The metallic surfaces in these condensers are separated by air and are so constructed that one set of plates are movable and can interlace with the fixed set

The table on p. 13 is a useful list of capacities, using standard size "vanes" or plates, and ½ in. spacing washers.

Condensers in Series and in Paral'el.

—The resultant capacity of condensers joined up in paralle! is the sum of the individual capacities.

If several condensers of capacities  $C_1$ ,  $C_2$ ,  $C_3$ , etc., are joined in *series*, the resultant capacity C is given by:

$$\frac{1}{C} = \frac{1}{C_1} + \frac{1}{C_2} + \frac{1}{C_3} + \text{ etc.}$$

Condenser Values in Wireless Circuits.—The aerial tuning condenser should be variable and have a maxi-

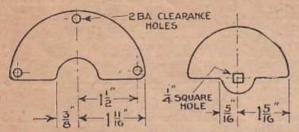


Fig. 7.—Dimensions of Standard Condenser Plates.

mum value of .0005 microfarad to .001 microfarad.

The secondary coil should have a .0005 microfarad variable condenser connected in parallel.

Anode coils should be tuned with a five-plate variable condenser.

The grid condenser should have a value between .0001 and .0003 microfarad inclusive and need not be variable.

Other fixed condensers should have the following values: H.T. condenser,

BURNDEPT COILS							
Coil No.	Wavelength, using .00075 mfd. cond						
S. 1	310 — 380						
8. 2	350 — 470						
S. 3	430 — 640						
8. 4	600 — 900						
75	700 — 1,100						
100	950 — 1,450						
150	1,300 — 2,100						
200	1,900 — 3,000						
300	2,600 — 4,100						
400	3,700 — 5,800						
500	5,500 — 9,000						
750	8,500 — 13,500						
1,000	12,500 — 21,000						

·5 to 2 microfarads; phones condenser, ·002 microfarad; the condenser across the primary of L.F. transformers, ·002 microfarad.

#### CRYSTAL DETECTORS

The following list gives the names of some of the better-known crystals. There are many others, especially

#### DIELECTRIC CONSTANTS

	S.I.C.					
Plate glass	-	1		-		4.5
Flint glass						4 to 6
Mica .				-	-	6
Ebonite						2.75
Paper (Mar	illa)					1.5
Air .						1
Paraffin wa	X					2:5
Presspahn						3
Shellac		-		-		3
Porcelain			-		- 14	4

those now marketed under various fancy names ending in "ite." The majority of these are purely and simply galena.

Bornite . . . 3Cu<sub>2</sub>S<sub>3</sub>Fe<sub>2</sub>S<sub>3</sub>

Carborundum . SiC Cassiterite (tinstone) SnO<sub>2</sub>

#### FIXED CONDENSERS

Capacity in mfds. (approx.)	No. of Plates	Dimensions of Plates cms. by cms.
-0001	2	1 ×1
.0002	2	$2 \times 1$
-0003	2 2	3 × 1
-0004	2	4 × 1
-0005	2 2	$2\frac{1}{2} \times 2$
+0006	2	$3 \times 2$
-0007	2	$3\frac{1}{2} \times 2$
-0008	2	4 × 2
-0009	4	3. × 1
-001	6	$-2 \times 1$
-0015	6	3 × 1
-002	6	-4 ×1
-0025	6	21 × 2 -
-003	6	- 3 × 2

 $\begin{array}{ccccc} \text{Copper pyrites} & . & \text{Cu}_2\text{S}_2\text{FeS}_2\\ \text{Galena} & . & . & \text{PbS} \\ \text{Graphite} & . & . & . & . \\ \text{Hessite} & . & . & . & . & . \\ \text{Ag}_2\text{Te} & . & . & . & . \end{array}$ 

Hæmatite	. Fe <sub>2</sub> O <sub>3</sub>
Hertzite	. PbŠ
Iron pyrites	. FeS <sub>2</sub>
Malachite	. CuCo <sub>2</sub> CuH <sub>2</sub> O
Molybdenite	. MoS <sub>2</sub>
Silicon .	. Si
Tellurium	. Te
Tungstellite	V. Tellisters
Zincite	. ZnO

The chemical formula of a pure specimen is given in most cases.

Crystal Contacts.—It is most important to use the right contact in conjunction with any particular crystal. Here is a list to guide the amateur.

Galena.—A silver, copper, or brass whisker.

Molybdenite.—A flat silver strip. Silicon.—A gold or steel whisker.

Carborundum and Steel.—In the resistance of vibration and static disturbances and for constancy in action, this combination remains supreme. An added potential by means of a battery and potentiometer is necessary.

Crystal Combinations.—Besides the well-known zincite-bornite combination of crystals there are other com-

#### CAPACITIES OF VARIABLE CONDENSERS

No. of Fixed Plates	No. of Moving Plates	Approx. Capacity in mfds,
43	42	-0015
29	28	-001
22	21	-0075
15	14	-0005
10	9	-0003
7 2	6	-0001
2	1	Vernier

binations that are as good but less known. Four others are given: Galena-tellurium, tellurium-zincite, carborundum-silicon, copper pyritestellurium.

#### VALVES

A useful list of receiving valve data is given in the following table. In the column marked "Purpose," the letters signify the use for which the valves are best suited. G means a

#### VALVE DATA

	Legge	torono de la companya del companya del companya de la companya de	I MARKET I	
Tupe of Valve		Filament		Purpose
Table to the	Voltage	Amperes	Voltage	T. GLINGE
	140			THE PERSON NAMED IN
DOMESTIC DO	0.0	0.7	NO. 100	
B.T.H. B 3	2.0	-35	20-80	G.
B4	6:0	-25	40-100	DI.
B5	2-5-8	-00	20-80	G
. R .	4:0	-63	45-60	G
Cosser P1	3.5	-73	20 80	DL
P2	3.5	-78	20-80	H
"Wuncell"			the second	
WI.	1.6-1.8	+3	30-70	DL
1100	1.6-1.8	-3	30-70	H
THE RESERVE AND ADDRESS OF THE PARTY OF THE	1-0	1	20-150	G
	4:0	-75		
Ediswan A R	The second second		30-80	G
, R	4:0	-75	50-100	G
ARDE	1.8-2.0	-8	20-50	G
AR 06 .	245	-06	20-50	G
PV1 .	6.0	1.5	300-600	L
PV2 .	6:0	1.5	200-400	1,
" PV3 .	4.0	-7	70-110	L
PV5DE	5.0	-25	50-150	T.
Manager of the same	4-6	-45	50-200	I
	4-0-6-0	-45	2000	
Transfers (That	THE RESERVE AND ADDRESS OF THE PARTY OF THE		50-120	HD
Londen (Plain .	4.8-5:0	1	40-80	DL
(Blue) .	4:8-5:0	-4	40-80	H
Marconi Osram	1	1	200	The state of
DER	1.8	*4	30-70	- (4
DEQ	1 40	- 10	0.6	f L
T) 12 W	3.0	-0	24	H
DE3	2.4-8	-06	30-80	G
TV 72 T	3+6	-32	30-150	GL
T) 17.5	5.0	-25	30-150	I
DE6	1.8	**	30-150	L
" " FE1	4.5	1.5	24-100	J.Four-
FE2	4/5	1.5	24	( elect'de
" " LS1	6.0	1-5	300-600	{ L
LS2	1 00		300 000	1
LS3	4.0	*85	70-100	L
LS5	4:5	-8	150	L
" " Q	5.0	+45	25-200	L
0.70	5:0	-75	25-100	D
D	4-0	-67	70	G
D 4 P	7	4.6	10	1
	3.8	-65	50-70	G
R4C	1		None Marine	
" " R 5 V	5.0	*65	30-150	G
V24	5:0	*75	24-30	H
Mullard DF	2.0-3.0	:06	20-100	G
" DFA0	3+5	:35	80-40	L
DFA1	5.5	-2	30-40	L
" DFA2	3.5	-25	20-25	L
LFOra A	1.4	-5	20-50	G
T TO Chan D	1.4	-3	20-50	G
T If Over C	1.4	.4		
	1975-1970		26-50	G
1-volt Ora	1+0	-25	30-150	G
" Ora A	3-8	-62	20-50	G
Ora B	1			1
" PAI	6.0	1.5	200-400	L
PA2	5.5	-85	100-200	L
PAS	4.0	-67	70-120	I.
" RA	3.8	-67	50-80	DL
2.0	6.0	-65	15-30	
Myers	4.0	-6	20-300	G
" DE.	2.5			
	7.90	*25	20-300	G
Penton H E 2 .	2.0		7720	G
" HE4 .	5:0	15	60	G
Thorpe K 1	2.0	.42	50-100	G
K4 .	-	-		Four-
				electrode
Wecovalve	·8-1·1	*25.	17-45	DL
Xtraudion	4.0	14	80-75	G
The second secon	-			-

general-purpose valve; D, a detector valve; H, a high-frequency amplifying valve; and L, a low-frequency amplifying valve.

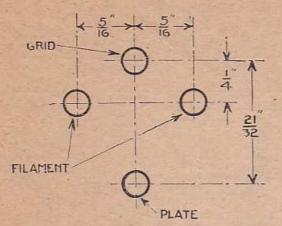


Fig. 8 .- Valve Leg Spacing.

Valve Holders.—Frequently the constructor who drills his own ebonite panel experiences difficulty in drilling the holes for the valve socket in the correct positions. It is advisable to make a small brass template with the necessary holes correctly drilled, which can be used whenever necessary. Fig. 8 shows the correct setting-out of the holes.

#### RESISTANCES

Filament Resistances.—For brightemitter valves the maximum resistance of the filament rheostat should be 5 ohms. Dull-emitter valves need more resistance,—from 25 to 30 ohms.

In making a wire rheostat care should be taken that the current which it will be required to pass does not exceed the safe carrying capacity of the wire used.

Potentiometer.—In multi-valve sets employing several stages of H.F. amplification the use of a potentiometer for controlling self-oscillation is almost essential. The resistance of a potentiometer lies between 200 and 800 ohms.

#### TRANSFORMERS

Low-frequency Transformer.—These transformers have an iron core and have a step-up ratio of from 1-1 to 1-8. The most usual ratio is 1-5. Particulars of a L.F. transformer having this latter ratio are as follow:

Primary winding—3,500 turns of No. 40 s.w.g. s.s.c. copper wire (1 oz.).

Secondary winding—17,500 turns of No. 47 s.w.g. enamelled copper wire  $(1\frac{1}{2})$  oz.).

Bobbin.— $\frac{5}{8}$  in. external diameter tube,  $\frac{3}{8}$  in. internal diameter,  $1\frac{1}{4}$  in. long. Flanges,  $1\frac{1}{2}$  in. diameter,  $\frac{1}{8}$  in. thick.

The iron core should be built up of narrow strips or "laminations" of Stalloy iron. The magnetic circuit is closed by similar strips on either side of the windings parallel to the core. These two strips are yoked together by shorter strips at right-angles. Each strip should be enamelled. Fifteen strips will be required for the core, 8 strips each for the two sides, and 16 yoke strips, all 5 in. wide.

Connections for L.F. transformers

Telephone Transformer.—It is advisable to use low-resistance telephones in conjunction with a suitable transformer in the plate circuit of a valve. The telephone transformer has a stepdown ratio. Suitable windings for 120 ohm phones on an iron core similar to that of the L.F. transformer are:

Primary:  $4\frac{1}{2}$  oz. No. 42 s.w.G. s.s.c. Secondary: 2 oz. No. 36 s.w.J. s.s.c.

If the low-frequency side of the set is inclined to howl, connect all the iron cores to earth. A resistance of the order of 50,000 to 100,000 ohms placed across each of the secondaries of L.F. transformers helps to produce distortionless telephony.

High-frequency Transformers.—The high-frequency transformer differs from the low-frequency transformer in that it has no iron core. There are, of course, other methods of coupling H.F. valves than by the H.F. transformer, but the latter is perhaps the

voltage may be obtained. Two of these large capacity cells connected in series would be sufficient for the usual dull-emitter valve. Much smaller cells are used for the high tension battery. Forty of them joined in series—that is, the zinc electrode of one cell connected

TABLE	OF	RESISTANCE W	TRES
	TO CALL	TOTALITY TOTAL TI	ALLEGE

S.W.G.		Eureka -			German Silver			
	Resistance per yard	Yards per lb.	Current capacity	Resistance per yard	Yards per lb.	Current Capacity		
18	-37	48	3-5	-177	# 51	3.5		
20	-66	85	2.5	-315	90	2.5		
22	1.10	140	1.5	-520	147	1.5		
24	1.77	227	1.0	-844	238	1.0		
26	2.65	340	0.5	1.26	349	0.5		
28	3-91	502	0.25	1.85	527	0.25		
30	5.58	714	0.2	2.65	750	0.2		
32	7.35	943	0.15	3.50	984	0.15		
34	10.13	1,300	0-1	4.82	1,360	0.1		
36	14:84	1,905	0.5	7.06	2,000	05-0		
38	23-81	3,060		11.33	3,295			
40	37-18	4,761		17.70	4,920			

most simple in operation. Below is a table giving winding and wavelength data for the plug-in type of transformer. Fig. 9 shows the pin connections.

Wavelength (:0003 mfd. con- denser across primary)	Turns Primary and Secondary	S.W.G.
300 — 450	50 each	38
400 - 700	75 ,,	38
600 - 1,000	110 ,,	38
900 — 2,000	150 ,,	42
2,000 - 4,000	200 ,,	42

#### H.T. AND L.T. BATTERIES

Dry Cells.—With the advent of the dull-emitter valve it is possible to use large dry cells as a source of current for filament heating. Each cell has an approximate voltage of 1½, and by joining them in series multiples of this

to the carbon electrode of the next cell and so on—would give 60 volts.

Accumulators.—Secondary batteries. or accumulators used in wireless receivers for the purpose of heating the filaments of valves, are usually of the "pasted-plate" type. These plates are made of spongy lead, or lead peroxide, and are immersed in a liquid, known as the electrolyte. The electrolyte is sulphuric acid and pure water, the specific gravity of which should be about 1.22 (sometimes written 1220). As the cell discharges the specific gravity will fall and the cell should. not be discharged to less than a specific gravity of 1170. Specific gravity is conveniently measured by a hydrometer.

Mixing and Adjusting the Electrolyte.

—Acid of 1.22 specific gravity contains about 1 part of concentrated pure acid to about 3 or 3½ parts of water

by volume. In mixing this, add the acid slowly to the water (and not the water to the acid), and wait till the solution is cold.

Capacity of an Accumulator.—The "capacity" or holding power is rated

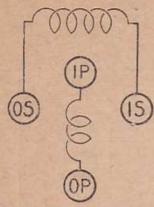


Fig. 9.—Connections of Plug-in H.F. Transformer.

in "ampere-hours." A 100 ampere-hour cell will give a continuous discharge of 5 amperes for 20 hours or 1 ampere for 100 hours.

The capacities of accumulators vary considerably with the make, size, etc., but an average value for the "pastedplate" type is about 10 ampere-hours type having a consumption over 5 ampere each. For valves having a consumption of 25 amperes, a capacity of 5 ampere-hours per valve will be suitable.

Charging Rate.—The charging amperes in practice average one-tenth to one-eighth the capacity.

Maximum Discharging Rate.—This largely depends upon the mechanical construction of the plates and should not, as a rule, exceed one-eighth the capacity.

#### A SHORT DICTIONARY OF WIRELESS TERMS

Aerial.—An elevated system of wires, insulated from the supports and connected in series with the receiver, used to collect the electro-magnetic waves and transform them into high-frequency oscillatory currents. These currents flow into the earth and the receiver detects them on the way.

Aerial, Frame.—The aerial in this case consists of several turns of wire wound on a frame which is able to

#### ACCUMULATOR DATA

Nu	nber of Plat Cells	es in	1	Dimensions Plates	of	Charging Current	Discharging Current	Capacity
Total	Positive	Negative	Length inches	Width inches	Thickness inches	Amperes	Amperes	Ampere Hours
2 7 7 11	1 3 3 5	1 4 4 6	3 <sup>3</sup> / <sub>7</sub> 15 15	11 7 10 10	3 16 3 10 4 1	.5 8 10 15	5 8 12 25	3 30 130 220

-per square foot of positive surface (both sides).

The number of negative plates in a multi-plate cell exceeds the number of positive plates by one.

Choosing an Accumulator for Given Set.—A capacity of approximately 10 ampere-hours (actual) should be allowed for every valve of the bright-emitter rotate. The frame aerial usually takes the place of the aerial and the A.T.I.

**Æther.**—A medium, assumed to exist in space and matter, through which electro-magnetic energy may be transmitted.

Alternating Current.—An electric current which reverses its direction of flow at certain fixed periods.

Ampere.—The practical unit of cur-

Amplifier.—An instrument consisting of a number of valves coupled together, used in conjunction with an ordinary receiver for the purpose of magnifying or amplifying the signals received. Amplifiers may be either radio (or high) frequency or audio (or low) frequency. See Amplifiers, Highfrequency and low-frequency.

Amplifier, High-frequency.—Usually abbreviated to H.F. amplifier. One in which the incoming oscillations are magnified before being passed to the detector for rectification. Amplification may be obtained in several ways, usually by means of air-core transformers between the valves, each transformer being tuned to the wave-

length it is desired to receive. Amplifier, Low-frequency.—Abbreviated to L.F. amplifier. A device which magnifies signals received by the detector. The currents which would normally be passed through the telephones are led to the primary of a low-frequency iron-cored transformer, which has more turns in the secondary than the primary. Thus an increased voltage is delivered by the secondary winding to the grid circuit of a valve. This increased voltage liberates stronger

Amplitude.—The maximum or minimum value that current or voltage reaches during an alternation.

currents in the plate circuit.

Anode.—The outer electrode of a valve. Generally a cylindrical metal Also known as the "plate." plate.

Antenna.—See Aerial. A. T. I.—See Tuner.

Atmospherics.—Interference caused by electrical disturbances in the atmosphere.

Audio-frequency. - Frequencies which come within the range that can be detected by the human ear.

Audion.—The name given to the

first three-electrode valve, which was

Auto-coupling.—See Direct-coupling. Autodyne.—The production of beat notes by some apparatus incorporated in the actual receiver. See Selfheterodyne.

Battery, High-tension.—Abbreviated to H.T. It consists of a number of small primary dry cells (or it may be of wet cells or secondary cells) connected in series to give a pressure of between 15 and 600 volts, depending

on the type of valve used.

Battery, Low-tension. - Abbreviated to L.T. It is usually a secondary battery, or accumulator, and is connected to valve filaments in order to maintain them in a state of incandescence necessary for the liberation of electrons to enable the valve to function as a rectifier or amplifier.

Beat.—The result of superimposing one alternating current on another of different frequency, used in connection with autodyne and heterodyne reception.

Blocking Condenser.—A fixed condenser used to prevent the passage of D.C. in any circuit.

Buzzer.—An instrument with an automatic make-and-break which will cause damped oscillations in H.F. circuits.

Capacity.—The property which a condenser has of receiving and storing a charge of electricity. It depends upon the size of plates, the distance between them and the nature of the' substance filling the spaces. Generally referred to in terms of microfarads.

Capacity-coupling. — The transference of energy from one circuit to. another by a condenser connected to both circuits.

Carrier Wave. A continuous highfrequency wave, emitted by telephonytransmitting stations which, if merely rectified, is turned into a sleady direct current, and if heterodyned, gives a steady note in the telephones. By means of a microphone the voice of the speaker is made to vary the amplitude of this wave.

Cathode.—Sometimes spelt kathode. The filament or source of the electron supply in a valve. (The negative electred).)

Catwhisker.—A pointed metallic contact, usually in the form of a helical coil of wire, used in conjunction with

a crystal.

Characteristic Curve.—A curve drawn on squared paper showing the relationship between the potential of the grid and the current in the anode filament circuit.

Choke, H.F.—An inductance of high value with an air core; used to prevent the passage of H.F. currents.

Choke, L.F.—An inductance of high value having an iron core; used to prevent the passage of L.F. currents.

Condenser.—See Capacity.

Conductor.—A substance containing electrons which are free to move under the action of an electric field. The only good conductors of electricity are metallic, the atoms of which will, under the slightest provocation, part with an electron.

Counterpoise.—A system of wires directly underneath the aerial, insulated from earth, A capacity to earth is formed through the counterpoise acting as one plate of a condenser and the earth as the other plate.

Continuous Waves.—Usually abbreviated to C.W. Waves which reach the same amplitude at each alternation or reversal.

Coupling, Direct.—If one portion of each of two circuits is common to both circuits, then the two circuits are said to be directly coupled.

Coupling, Indirect.—This is the electrostatic or magnetic connection be-

tween two circuits for the transference of energy from one circuit to the other.

Crystal Detector.—A means of detecting damped or modulated waves by which a type of crystalline mineral is used. The crystal has the property of allowing more current to pass in one direction than in the opposite direction.

Damped Waves.—See Waves, Damped.

**Detector.**—A device, usually either a valve or crystal, which has the property of allowing the passage of H.F. currents through them in one direction only.

**Dielectric.**—The insulating substance between the electrodes or plates of a condenser.

Direct Current.—A current which flows in the same direction continually; such as the current obtained from accumulators and dry cells.

Direction Finding.—A method by which receiving apparatus is so arranged that the operator is able to tell from which direction of its reciprocal received signals are coming. Abbreviated to D.F.

Earth.—An essential part of an aerial circuit. It usually consists of a number of wires buried in the ground under the aerial. Most amateurs make an earth connection by soldering the wire to a cold water pipe. It may be regarded as an electrical reservoir into and out of which the received oscillations may flow as they oscillate in the aerial circuit.

Electrode.—One of the elements composing a valve, such as filament, grid or anode. Also the positive and negative terminals of various other pieces of electrical apparatus.

Electro-magnetic Induction. — The transference of energy from one circuit to another when these circuits

are not connected directly with one another.

Electron.—A particle of negative electricity contained in an atom.

Electro-motive Force.—The force that produces or tends to produce current.

Ether.—See Æther.

Filament.—The part of the valve to which the accumulator or dry battery is connected. It is made incandescent by the passage of the current.

Frame Aerial. See Aerial, Frame.

Frequency.—The number of times an oscillating current changes its direction in a given time, usually per second.

Frequency. - See Audio - frequency

and Radio-frequency.

Grid.—The control electrode of a three-electrode valve, usually consisting of a mesh or helical coil of wire surrounding the filament. Potential changes of the grid cause magnified current variations in the anede circuit.

Grid-leak.—A high resistance path connected between the grid of a valve and the positive or negative of the low-tension battery. Placed in shunt across the grid condenser it provides a path or leak whereby the electrons which collect on the grid may return to the filament. Without this leak the accumulation of electrons en the grid would interfere with reception.

Ground.—An American term for

earth connection.

Hard Valve.—A valve of which the containing vessel has been exhausted to the highest possible degree. Nearly all English valves are hard.

Harmonic. — Submultiples of the fundamental wavelength radiated from

a station.

Heterodyne.—The production of an audible frequency by superimposing one high frequency on another of slightly greater or less frequency. As opposed to autodyne it implies that oscillations are produced by an oscillator which is not part of the receiver.

High-frequency Amplifier.—See Amplifier, High-frequency.

High-tension Battery.—See Battery. Impedance.—The resistance offered by a coil to varying current, due to ohmic resistance and the counter E.M.F. created by the varying current.

Inductance.—Analogous to mechanical inertia. The term applied to electrical inertia of a circuit. In an oscillatory circuit the inductance alternately stores the energy in magnetic lines of force and dissipates it by charging the condenser across the coil.

Induction.—The production of varying electric currents in one coil by means of another coil possessing currents similar in form but of opposite

E.M.F. in juxtaposition.

Insulator.—A term applied to all materials which form very bad conductors of electric currents. They do, however, allow high-frequency oscillations to pass when they act as the dielectric of a condenser.

Jar.—The Admiralty unit of capacity, being 1-900th or 0011 of a microfarad.

Kilowatt.—A thousand watts. A watt is the electrical unit of power just as a horse-power is the mechanical unit. 746 watts equals 1 horse-power.

Lead-in.—A conductor joined between the aerial proper and the aerial terminal of the receiver. As its name implies, it "leads in" the oscillating currents from the aerial.

Lightning Arrester.—A very small spark gap frequently connected between the aerial and earth terminals of the receiver, so that if the aerial is struck by lightning the discharge will jump across the gap and not flow through the circuit and damage the apparatus.

Loading Coil.—An additional coil, usually placed in the tuning circuit, by which the wavelength of that circuit

is increased.

Loose-coupler.—An arrangement of two coils between which the coupling can be varied; frequently used in the aerial circuit of either a crystal or valve receiver. By this method slightly better selectivity is obtained than when direct coupling or only one coil is used.

Loud-speaker.—It consists, usually, of a telephone earpiece with its diaphragm placed very near the small end of a horn of conical or similar shape. The acoustic properties of the horn amplify sound emitted from the earpiece.

Low-frequency Amplifier. - See Am-

plifier, Low-frequency.

Low Tension.—A small value of electrical voltage.

Megohm.—A million ohms.

Mica.—An insulator commonly used for making fixed condensers. Ruby mica is the best to use for this purpose.

Microphone.—A mass of earbon granules loosely packed between two carbon blocks in such a manner that when these blocks are caused to vibrate by air waves striking them the granules are either compressed or released, thus producing a variation in resistance in the microphone circuit. Used in transmitters.

Oscillating Current.—An alternating

current of very high frequency.

Oscillating Valve.—A valve so connected that it will produce oscillations. In a receiving circuit this is done by means of a reaction coil coupled back

to the aerial or grid circuit.

Phase.—A phase difference is said to exist when one oscillating current is superimposed on another oscillating current (both of the same frequency), provided that the value and direction of one current is not, at any instant, equal to the value and direction of the other current.

Plate.—Another name for the anode of a valve.

Polarity.-The phenomenon of elec-

tricity is due to a flow of electrons in a circuit. That place in the circuit from which the electrons are considered as beginning to flow is called the negative pole; thus they flow to the positive pole. In the case of a battery it is incorrectly assumed that current flows from the positive to the negative pole, that is, in the opposite direction to the actual electron stream.

Potential.—The pressure or voltage of an electric current. The amount of current which flows through a given resistance depends upon the potential or pressure of the current applied across its ends.

Potentiometer.—A variable resistance generally used for the purpose of placing the correct potential across a crystal to enable it to rectify efficiently. Carborundum is about the only crystal that needs a potentiometer. It is also used in valve circuits to control the potential of the grids with respect to the filament.

Primary. — That coil of a loose coupler, or winding of a transformer, in which the current first flows. The coil or winding in which an induced current is produced is known as the secondary.

Radiation.—The phenomenon of an aerial throwing off electro-magnetic

waves.

Radio Frequency.—Usually called high-frequency current, abbreviated to H.F. This refers to the currents as received in an aerial and earth circuit before they have been rectified or changed to an audible frequency.

Reaction Coil.—The coil used in the plate circuit of a detector valve, and usually magnetically coupled to the aerial or closed circuit of the receiver, is called the reaction coil. By its aid the stronger currents flowing in the plate circuit of the valve are made to react on the incoming oscillations in the aerial circuits. These two sets of

oscillation currents are exactly in step, and provided the coupling between the reaction coil and the aerial or closed circuit is sufficiently close, the plate currents will be superimposed on the incoming oscillations and will pass with them through the valve, producing still stronger current variations in the plate circuit. In this way a single valve may be operated as a detector and regenerative or retroactive amplifier.

Regenerative Coupling. — See Reaction Coil.

Resistance.—The property possessed by all substances of offering in a greater or less degree opposition to the passage of an electric current.

Resistance, Filament. — A device placed in series with a valve filament and its accumulator to limit the amount of current supplied to the valve. The brilliancy of the valve filament may thus be adjusted, and its best heat for good reception easily obtained. It consists usually of a spiral of resistance wire having a resistance value of between 5 and 30 ohms, according to the type of valve in use. The filament resistance is made variable by means of a slider which passes over the spiral.

Retroactive Coupling,—See Reaction Coil.

Secondary.—The coil of a loose-coupler or winding of a transformer in which a current is induced by the primary.

Self-heterodyne.—As opposed to heterodyne the superimposed oscillations are supplied by the receiver itself.

Self-induction. — Every conductor possesses the property of induction in a greater or less degree, but unless the conductor is wound in the form of a coil with adjacent turns close to one another, the self-induction of the conductor is negligible.

Solenoid.—A magnet, consisting of

a cylindrical coil of wire traversed by an electric current.

Specific Inductive Capacity. — A constant applied to dielectrics which has an important bearing upon the capacity of a condenser. If a dielectric of S.I.C. 2 is substituted by a dielectric of S.I.C. 6 the capacity of the condenser is trebled.

Static.—Similar disturbances to atmospherics.

Supersonic.—Frequencies which the ear cannot detect; any frequency above 20,000 per second.

Telephones.—Instruments employed for converting electrical variations into sound waves of audible frequency. They usually consist of coils of fine wire round a magnet, in front of which is mounted a diaphragm. Electric impulses through the coils impart a movement to the diaphragm by magnetic attraction, thus setting up sound waves which affect the human ear.

Transformer.—An instrument provided with two or more windings closely coupled in such a manner that a current variation in one, known as the primary, induces an opposite current in the other, called the secondary. If the secondary is larger, that is, contains more turns of wire than the primary, the device is called a step-up transformer. If the secondary consists of less turns than the primary it is known as a step-down transformer. Transformers used for dea!ing with radio-or high-frequency currents have an air core, whilst those for use in connection with audio-or low-frequency currents usually have a laminated iron core which may be either open or closed.

Transformer, High-frequency.—This is the coupling device used between successive valves in a high-frequency amplifier. It consists of primary and secondary windings wound close together on a core of non-conducting

material. The primary winding is placed in the plate circuit and is shunted by a small variable condenser. H.F. currents oscillating in this winding are tuned to the wavelength of the aerial circuit by means of a condenser across the primary. These currents are transferred to the secondary winding and thence to the grid of a second valve, and these in turn liberate still stronger currents in the plate circuit of the second valve.

Transformer, Low-frequency. — It consists of primary and secondary windings of very fine wire wound on a core of iron wires or plates. It is of the step-up variety, that is, the secondary has more turns than the primary, the ratio being usually between one to three or five.

Transformer, Telephone.—An instrument consisting of primary and secondary windings of very fine wire, wound on a core of iron wires or plates. The primary usually contains more turns than the secondary. It is used with low-resistance telephones, and obviates the risk of damage to telephone windings by the direct passage of current from the high-tension battery.

Tricde.—A 3-electrode valve.

Tuner.—In order to receive signals from a given transmitting station the receiver must be adjusted to the wavelength of the transmitter. This adjustment, or tuning, is effected by varying the amount of inductance and capacity in the receiver circuits. The values of inductances within the receiver will depend on the size of the inductance coil, also the number of its turns included in the circuit, and the amount of capacity (in the form of a variable condenser) in series or parallel with the coil. A fixed inductance coil, that is, one in which the number of turns is not variable, will only tune to wavelengths allowed for by variations in the capacity of the condenser. A loose-coupler is employed where two tuning circuits, aerial and closed, are used for the purposes of reducing jamming. The three-coil tuner contains mountings for three coils, one in the aerial circuit, one in the closed circuit, the third one being the reaction coil. Coupling between the circuits is effected by varying the distances between the coils.

Valve.—The valve is a vacuum tube of glass containing a filament, grid, and plate. The grid is usually a wire spiral surrounding the filament, and the plate consists of a metal cylinder surrounding both filament and grid, neither component touching the other. For detecting purposes the tuner is connected to grid and filament; and the telephone or plate circuit, which contains the telephones and high-tension battery, is joined to the plate and filament of the valve. An accumulator of two, four, or six volts is connected to the filament in order that the latter may be made hot. When the filament is glowing it throws off particles of negative electricity (electrons) which are attracted by the plate, this being at positive potential by reason of its connection to the positive pole of the hightension battery. This flow of electrons between filament and plate constitutes a conducting path for currents from the high-tension battery, which currents pass through the telephones and impart a movement to the diaphragm when the current starts and stops. Incoming oscillations, which take the form of waves, of which the upper halves are positive and the lower negative, come on to the grid from the tuning circuits. The positive half of a wave charges the grid positively and thus assists the plate in its attraction of electrons from the filament, consequently a current flows in the plate circuit. The negative half of a wave charges the grid negatively, which means that the electrons, or negative particles of electricity, are repelled from the grid, on the principle that "like repels like," and thus no electrons are able to make their way

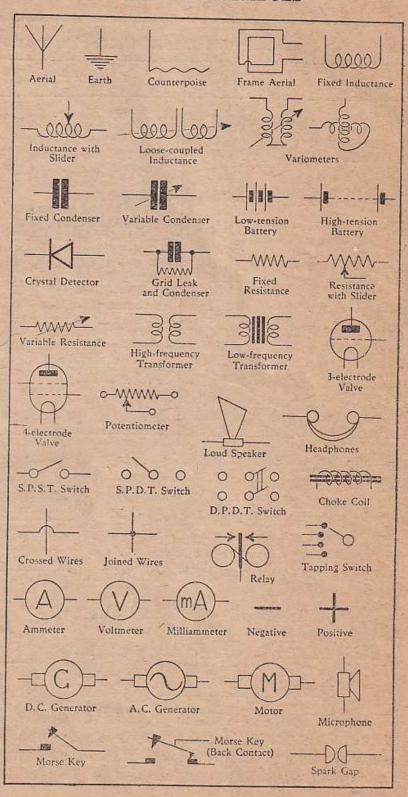
to the plate. Under these conditions no current flows in the telephone circuit. Thus, at each half-wave a passage of current from the high-tension battery produces a click in the telephone, and as these occur in rapid succession, sound waves are set up.

Valve, Soft.—That type of valve in which some residual gas is left in the bulb. Usually these valves can only be used as detectors.

Vario-coupler.—A piece of apparatus employed for indirect magnetic coupling of two circuits. In construction it is usually similar to the variometer described below, except that the two windings are kept separate, each winding being part of a distinct circuit.

Variometer.—It is sometimes used as a tuner in place of the more usual inductance coil and variable condenser. It consists of two coils, an end of one being connected to one end of the other, the two free ends being connected in the same manner as an inductance coil. The two coils are wound on separate formers, one of which is made to rotate within the other through an arc of 180 de-Movement of the grees. coils in relation to each other produces changes in the inductance and capacity of the circuit and thus alters the wavelength. The variometer may also be used in the plate circuit of a detector valve to tune that circuit to the wavelength of the

#### WIRELESS SYMBOLS



aerial oscillations, for purposes of reaction.

Volt.—The electrical unit of pressure.

Wavelength.—The distance between successive crests or troughs of an electro-magnetic wave assumed to be The solution may be made as thick as possible, as it can easily be thinned down by the addition of a little more spirit.

Ebonite Weights and Sizes.—The following table will be found useful for those who construct their own sets

B.B.C. STATION CALL SIGNS AND ADDRESSES

Town	Call Sign	. Studio Address	Transmitting Station
Aberdeen Birmingham Bournemouth Bradford  Cardiff Edinburgh Glasgow Hull Leeds Liverpool London Manchester Newcastle Plymouth  Sheffield Nottingham Belfast  Stoke-on-Trent Dundee Swansea	2 B D 5 I T 6 B M 2 L S 5 W A 2 E H 5 S C 6 K H 2 L S 6 L V 2 L O 2 Z Y 5 P Y 6 F L 5 B E 6 S T 2 D E 5 S X	17. Belmont Street. 105. New Street. 72. Holdenhurst Road. Cabinet Chambers, Basinghall Street, Leeds. 39. Park Place. 79. George Street. 21. Blythewood Square. 26-27. Bishop Lane. Cabinet Chambers, Basinghall St. 85. Lord Street. 2. Savoy Hill, Strand. Ormes Buildings, Parsonage. 10. Gray Street. Athenæum Chambers, Athenæum Lane. Corporation Street. 4. Bridlesmith Street. 31. Linenhall Street. Majestic Buildings.	6, Golden Square. Summer Lane Power Station. Bushey Road, Charminster. Simes Street, Bradford.  Eldon Road. Edinburgh University. Port Dundas. Grand Lion Mills, Wincolmlee. Claypit Lane. Smithdown Lane.  Same. Blandford Street. Mill Street.  Same. Duke Street, New Bassford. Corporation Generating Station, East Bridge Street. London Road.

carried through space by the ether. The longer the wavelength of a signal the lower the frequency.

Waves, Damped.—A series of electrical oscillations of which the amplitude gradually diminishes owing to the natural characteristics of the circuit in which they flow.

Waves, Undamped.—See Continuous Waves.

X's.—Another term for atmospherics.

#### MISCELLANEOUS FACTS

Shellac Varnish.—Shellac should be obtained in the solid flake form. It should be chopped up into small pieces and dissolved in methylated spirits.

in which ebonite panels, etc., are necessary.

Thickness (inches)	Weight of 1 sq. ft. (oz.)	Area (sq.in.) of 1 lb.	Area (sq.in.) of 1 oz.
1	13	176	11
16	20	1171	74
1 8 8	26 39	88 56	54
8	52	44	$\frac{3\frac{1}{9}}{2\frac{3}{4}}$

B.A. Screw Sizes.—The principal sizes of British Association standard screws are given on p. 25. Nearly all screw threads used in wireless apparatus are made to this standard.

## B.A. SCREW SIZES

No.  Absolute I in mill  Full Diameter	Absolute D in milli		Approximate No. of Threads	Approximate Dimensions in inches	
	Pitch	No. of Threads per inch	Full Diameter	Pitch	
2 4 6 8	4·7 3·6 2·8 2·2	0·81 0·66 0·53 0·43	31·4 38·5 47·9 59·1	0·185 0·142 0·110 0·087	0·0319 0·0260 0·0209 0·0169

#### TABLE OF ABBREVIATIONS

 $\lambda = wavelength$ 

C = capacity

L = inductance

K = dielectric constant or

\_ \ S.I.C.

M = mutual inductance

 $\Omega = ohm$ 

 $M\Omega = megohm (1,000,000)$ 

F = farad

μF or mfd. = microfarad

 $_{\mu}^{\mathrm{H}}=_{\mathrm{microhenry}}^{\mathrm{henry}}$ 

CAPACITY CONSTANTS

1,000 centimetres = 1 jar

900 jars = 1 micro-

1,000,000 microfarads = 1 farad.

INDUCTANCE CONSTANTS

1,000 centimetres = 1 microhenry

1,000,000 microhenries

= 1 henry.

farad

## COMBINATIONS OF IGRANIC COILS

Station		Wavelength	Variable	rcuit with Condenser arallel	Secondary Circuit with 0005 mfd.	Tuned- anode Cir- cuit with ·0003 mfd.	React	ion on
		in Meters	.001 mfd.	0005 mfd.	Variable Condenser in parallel	Variable Condenser in parallel	Aerial	Tuned anode
B.B.C. Stations .	- 40	300/400	25	95	F0	100	100	200
L'Eçole Supérieure		400/500	35	35	50	50	75	75
Croydon and Air-		100/000	99	50	75	75	75	75
craft Telephony		900	-	100				3000
Paris (Radiola) .	SFR	1,780	75	100	150	150	150	200
Paris (Eiffel Tower)	FL	2,600	150	150	200	200	100	150
yons	YN	The state of the s	200	250	300	300	200	200
The Hague	PCGG	3,100	250	300	400	400	250	250
yngby		1,050	100	100	150	150	150	200
Berlin (Königs-	OXE	2,400	200	250	300	300	200	200
wusterhausen) .	LP	2,800	250	250	300	200	000	400
berswalde	_	2,930	250	300	400	300	200	200
rague	PRG	1,800	150	150		400	250	250
ausanne	HB 2	1,100	100	100	250	250	100	150
Iadrid	April - The	1,650/2,200	200	100 A	150	150	150	200
lome	ICD	3,200	250	200	250	250	150	200
		0,200	200	300	400	400	250	250

# LIST OF CALL SIGNS

2 A A	Radio Communication Co., Ltd., Slough.	2 F N	L. Baker, Ruddington, Notts.
2 A B	J. O. Walker, 16, Ash, Rd., North Lane, Head-	2 F P	F. Foulger, 118, Pepys Rd., S.E.14
	ingley, Leeds.	2 F Q	Burndept, Ltd., Blackheath, S.E.
2 A D	Siemens Bros. & Co., Ltd., Woolwich.	2 F R	S. Rudeforth, 54, Worthing St., Hull.
2 A F	A. R. Taylor, 49, Idmiston Rd., S.E.27.	2 F S	C. S. Frowd, Ranamere, Knebworth Rd., Bexhill-
2 A G	T. Moor, Lethbridge Rd., Southport.	111 22	on-Saa,
2AH	Hounslow.	2 F T	Edinburgh & District Radio Society.
2 A J	Radio Comn. Co., Ltd., Barnes, S.W.13.	2 F U	E. T. Manley, Arthur Rd., S.W.19.
2 A K	R. M. Radio, Ltd., Diglis, Worcester.	2 F W	D. Thomas, 45, Chatsworth Rd., Bournemouth.
2 A L	W. Halstead, Briar Lane, Thornton-le-Fylde.	2 F X	H. C. Binden, 32, Oxford Rd., Bournemouth.
2 A M	A. Perl, 5, Sharon Rd., Chiswick, W.4.	2 F Z	Y. W. P. Evans, 2, Parkside Rd., Alexandra
2 A N	A. Sharman, I, Morella Rd., Wandsworth.		Park, Manchester.
2 A O	O. H. Relly, 26, Junction Rd., Eastbourne.	2 G A	J. A. Gibson, 18, Daniel St., Bath.
2 A P	F. Adams, Alexandra Hotel, Kincardineshire.	2 G D	Birmingham Ex. W. Club, Digbeth Inst.
2 A Q	- Davis, Thornton Heath.	2 G F	J. V. Newson, 130, Ormside St., S.E.15.
2 A R	E. Gaze, 3, Archibald St., Gloucester.	2 G G	A. H. Kidd, Marlborough House, Newbury.
2 A S	W. H. Moon, 69, Coleridge Av., Penarth, nr.	2 G I	- Johnston, Hind House Lane, Sheffield.
- W. 21	Cardiff.	2 G J )	L. Johnson, 5, Hagg Lane, Sandygate, Shef-
2 A T	- Beresford, Birmingham.	2 G K	field.
2 A U	A. C. Bull, 25, Fairland Rd., W. Ham, E.15.	2 G L	W. J. Henderson, 2, Hollywood-Rd., S.W.10.
2 A V	D. H. W. Swiney, 18, Southchurch Rd., Southend-	2 G O	L. Bland-Flagg, 61, Burlington Rd., W.2.
	on-Sea.	2 G P	W. Gartland, 14, Baalbec Rd., N.5.
2 A W	H. H. T. Burbury, Crigglestone, Wakefield.	2 G Q	Taunton Scouts, Wilton, Taunton.
2 A X	G. Sutton, 18, Meltord Rd., S.E.22.	2 G R 1	T. Forsyth, "Wenslea," Ashington, Northumber-
2 A Y	D. F. Owen, Limehurst, Sale, Cheshire.	2 G S 5	land.
2 A Z	William Le Queux, St. Leonards-on-Sea.	2 G T	G. Irvine, 12, Treborth St., Liverpool.
2 B B	J. Simpson, Bonnybridge,	2 G.U	Halifax W. Club, Clare Hall, Halifax.
2 B C	D. F. Owen, Limehurst, Sale, Cheshire.	2 G V	W. P. Rigby, St. Lawrence Vic., Bristol.
2 B D	Aberdeen B.B.C. Station, 17, Belmont St.	2 G W	A. Cash, Foxley Mount, Lymm, Cheshire.
2 B E	Belfast B.B.C. Station, 31, Linenhall St.	2 G Y	G. Horwood, 557, Lordship Lane, S.E.22.
2 B N	, Orchardleigh, Golders Green, N.W.11,	2 G Z )	
2 B O	Marconi Co. (Private Call), Writtle.	2 H A I	A. L. Megson, Cambridge St., Manchester.
2 B P	Daimler Motor Co., Kelvinside, nr. Glasgow.	2 H B	L. H. Lomas, Summerseat, Manchester.
2 B S	Marconi Co., Chelmsford.	2 H C	F. M. J. White, Bucklebury, Reading.
2 B Z	B. Davis, 23, Ferncroft Av., N.W.3.	2 H D.	Prestwich & District Radio Soc., H. A. Wood,
2 C A	C. E. Palmer Jones, 20, Princes Rd., Wimbledon,	7,755	Spring Bank, Church Lane, Prestwich, Lancs.
on.	S.W.	·UE	
2 C B	C. E. Davies, Pastimes Ltd., 208, Walworth	2 H F	W. G. Gold, Rosedale, Belwell Lane, Four Oaks,
2007	Rd., S.E.17.	- H.C	nr. Birmingham.
2.C.C	H. S. Nicholls, "The Whins," Stocksfield-on-	2 H G	T. Boutland, Sr., 25, First Row, Ashington,
War.	Tyne.	2 H H	T. Boutland, Jr., J Northumberland,
2 C D	Burton-on-Trent W. Soc., High St., Bon-T.	2 H K	A. A. Swinton, 66, Victoria St., S.W.r.
2 C H	Oundle School Sci. Soc., Oundle, Northants.	2 H L	A. A. Swinton, 40, Chester Sq., S.W.I.
2 CI	R. Brooks King, Widcombe, Taunton.	2 H O	—, litord.
2 C K	City & Guilds Coll., Exhibition Rd., S.W.7.	2 H P	H. C. Woodhall, 55, Cardington St., N.W.r.
2 C M	N. D. B. Hyde, 92, Littledale Rd., Egremont,	2 H Q	A. W. Fawcett, 11, Leigh Rd., Clifton.
1000	Cheshire.	2 H R	Hambling, Clapp & Co., 11, Agar St., W.C.2.
200)	J. C. Elmer, 14, Gordon Sq., Birchington-on-	2 H S	G. W. Hale, 36, Dagnall Park, S.E.25.
2 C P J	Sea.	2 H T	R. H. Klein, 18, Crediton Hill, N.W.6.
2 C W	B. Hippisley, Ston, Easton Park, Bath.	2 H V	H. Beresford, Wylde Green, Birmingham.
2 C X	A. L. Rackham, 114, Beauchamp Rd., S.E.19.	2 H W	H. Beresford, 213, Bull St., Birmingham.
2 C Y	J. G. Lucas, 6, Spencer Av., Palmer's Green.	2 H X	F. A. Love, Guildford Pk. Rd., Guildford,
2 C Z	C. T. Atkinson, 17, Beaumont Rd., Leicester.	2 H Z 2 I A	P. W. Northey, 12, Pelham Cres., S.W.7.
2 D B	F. L. W. Dean, 54, Pill St., Cogan, Glam.	2 I B	L. F. Ostler, 19, Windsor Tee., Penarth.
2 D C	M. Child, 60, Ashworth Mansions, W.g.	2 I C	W. Bemrose, Littleover Hill, Derby. O. S. Stiles, "Herons Ghyll," Harrow.
a D D	A. C. Davis, 105, Brynland Ave., Bristol.	2 I D	E. S. Firth, Thames Ditton.
2 D E	Dundee B.B.C. Station. R. E. Miller, 65, Malden Rd., New Malden.	žÍF	S. W. Bligh, 2, North Lane, Canterbury.
2 D F	K. E. Miller, 65, Maiden Rd., New Maiden.	2 I H	Cardiff Tech. Coll., Cathays Park, Cardiff.
2 D G 2 D H	W Burnet to Coverdale Dd. Cheffield	211)	
2 D T	W. Burnet, 10, Coverdale Rd., Sheffield.	2111	R. W. Brown, 71, Norwood Cres., South; ort.
2DJ	A. T. Lee, Alvaston, Derby.	2 I K	County High Sch. for Boys, Altrincham.
2 D L			
	Compete Participation inclining process in	211	H. R. Goodall, Bassett, Southampton
	Northern Polytechnic Institute, Physics Dept., Holloway Rd. N 7	2 I L 2 I N	H. R. Goodall, Bassett, Southampton. J. F. Fish, Station Rd., Thornton-le-Fylde.
	Holloway Rd., N.7.	2 I N	J. F. Fish, Station Rd., Thornton-le-Fylde.
2 D N	Holloway Rd., N.7. M. N. Durnford, Kingswear, S. Devon,		J. F. Fish, Station Rd., Thornton-le-Fylde, W. A. Ward, 26, Marlboro' Rd., Sheffield.
2 D N 2 D R	Holloway Rd., N.7. M. N. Durnford, Kingswear, S. Devon, S. R. Wright, Mab Wood, Shipley.	2 I N 2 I Q	J. F. Fish, Station Rd., Thornton-le-Fylde, W. A. Ward, 26, Marlboro' Rd., Sheffield, H. W. Doudney, St. Luke's Vicarage, Bath,
2 D N 2 D R 2 D S	Holloway Rd., N.7. M. N. Durnford, Kingswear, S. Devon, S. R. Wright, Mab Wood, Shipley. E. Redpath, 64, Iron Mill Lane, Crayford.	2 I N 2 I Q 2 I S	<ul> <li>J. F. Fish, Station Rd., Thornton-le-Fylde.</li> <li>W. A. Ward, 26, Marlboro' Rd., Sheffield.</li> <li>H. W. Doudney, St. Luke's Vicarage, Bath.</li> <li>E. White, 16, Cliff Tee., St. Johns, S.E.8.</li> </ul>
2 D N 2 D R	Holloway Rd., N.7. M. N. Durnford, Kingswear, S. Devon, S. R. Wright, Mab Wood, Shipley, E. Redpath, 64, Iron Mill Lane, Cravford, Barrow & Dist. Amat. Wireless Assoc., Market	2 I N 2 I Q 2 I S 2 I T 2 I U	J. F. Fish, Station Rd., Thornton-le-Fylde, W. A. Ward, 26, Marlboro' Rd., Sheffield, H. W. Doudney, St. Luke's Vicarage, Bath, E. White, 16, Cliff Tce., St. Johns, S.E.8, G. A. E. Roberts, Twyford, Hampshire.
2 D N 2 D R 2 D S 2 D T	Holloway Rd., N.7. M. N. Durnford, Kingswear, S. Devon. S. R. Wright, Mab Wood, Shipley. E. Redpath, 64, Iron Mill Lane, Crayford. Barrow & Dist. Amat, Wireless Assoc., Market Tower, Barrow-in-Furness.	2 I N 2 I Q 2 I S 2 I T	J. F. Fish, Station Rd., Thornton-le-Fylde, W. A. Ward, 26, Marlboro' Rd., Sheffield, H. W. Doudney, St. Luke's Vicarage, Bath, E. White, 16, Cliff Tcc., St. Johns, S.E.8. G. A. E. Roberts, Twyford, Hampshire, L. F. White, 10, Priory Rd., Knowle, Bristol.
2 D N 2 D R 2 D S	Holloway Rd., N.7. M. N. Durnford, Kingswear, S. Devon, S. R. Wright, Mab Wood, Shipley, E. Redpath, 64, Iron Mill Lane, Crayford, Barrow & Dist, Amat, Wireless Assoc., Market Tower, Barrow-in-Furness, W. D. Norbury, 51, Chilwell Rd., Beeston,	2 I N 2 I Q 2 I S 2 I T 2 I U 2 I V 2 I W 2 I X	J. F. Fish, Station Rd., Thornton-le-Fylde, W. A. Ward, 26, Marlboro' Rd., Sheffield, H. W. Doudney, St. Luke's Vicarage, Bath, E. White, 16, Cliff Tce., St. Johns, S.E.8, G. A. E. Roberts, Twyford, Hampshire.
2 D N 2 D R 2 D S 2 D T 2 D U	Holloway Rd., N.7. M. N. Durnford, Kingswear, S. Devon, S. R. Wright, Mab Wood, Shipley, E. Redpath, 64, Iron Mill Lane, Crayford, Barrow & Dist, Amat, Wireless Assoc., Market Tower, Barrow-in-Furness, W. D. Norbury, 51, Chilwell Rd., Beeston, R. Gambier-Parry, The Old Toll House, Brox-	2 I N 2 I Q 2 I S 2 I T 2 I U 2 I V 2 I W	J. F. Fish, Station Rd., Thornton-le-Fylde, W. A. Ward, 26, Marlboro' Rd., Sheffield, H. W. Doudney, St. Luke's Vicarage, Bath, E. White, 16, Cliff Tee., St. Johns, S.E.S., G. A. E. Roberts, Twyford, Hampshire, L. F. White, 10, Priory Rd., Knowle, Bristol, G. R. Marsh, Twyford, Winchester, S. G. Taylor, Littleover, Derby.
2 D N 2 D R 2 D S 2 D T 2 D U	Holloway Rd., N.7. M. N. Durnford, Kingswear, S. Devon, S. R. Wright, Mab Wood, Shipley. E. Redpath, 64, Iron Mill Lane, Crayford. Barrow & Dist. Amat. Wireless Assoc., Market Tower, Barrow-in-Furness. W. D. Norbury, 51, Chilwell Rd., Beeston. R. Gambier-Parry, The Old Toll House, Broxbourne, Herts.	2 I N 2 I O 2 I S 2 I T 2 I U 2 I V 2 I W 2 I X 2 I Y 2 I Z	J. F. Fish, Station Rd., Thornton-le-Fylde, W. A. Ward, 26, Marlboro' Rd., Sheffield, H. W. Doudney, St. Luke's Vicarage, Bath, E. White, 16, Cliff Tcc., St. Johns, S.E.8, G. A. E. Roberts, Twyford, Hampshire, L. F. White, 10, Priory Rd., Knowle, Bristol, G. R. Marsh, Twyford, Winchester.
2 D N 2 D R 2 D S 2 D T 2 D U 2 D V	Holloway Rd., N.7. M. N. Durnford, Kingswear, S. Devon, S. R. Wright, Mab Wood, Shipley, E. Redpath, 64, Iron Mill Lane, Crayford, Barrow & Dist, Amat, Wireless Assoc., Market Tower, Barrow-in-Furness, W. D. Norbury, 51, Chilwell Rd., Beeston, R. Gambier-Parry, The Old Toll House, Brox-	2 I N 2 I O 2 I S 2 I T 2 I U 2 I V 2 I W 2 I X 2 I Y 2 I Z 2 I Z 2 I Z	J. F. Fish, Station Rd., Thornton-le-Fylde, W. A. Ward, 26, Marlboro' Rd., Sheffield, H. W. Doudney, St. Luke's Vicarage, Bath, E. White, 16, Cliff Tce., St. Johns, S.E.8. G. A. E. Roberts, Twyford, Hampshire. L. F. White, 10, Priory Rd., Knowle, Bristol. G. R. Marsh, Twyford, Winchester. S. G. Taylor, Littleover, Derby. J. Briggs, 664, Corporation St., Birmingham, A. H. Maidment, Siddons Rd., S.E.23.  — Atkins, Upper Norwood.
2 D N 2 D R 2 D S 2 D T 2 D U 2 D V 2 D X	Holloway Rd., N.7. M. N. Durnford, Kingswear, S. Devon, S. R. Wright, Mab Wood, Shipley, E. Redpath, 64, Iron Mill Lane, Crayford, Barrow & Dist, Amat, Wireless Assoc., Market Tower, Barrow-in-Furness, W. D. Norbury, 51, Chilwell Rd., Beeston, R. Gambier-Parry, The Old Toll House, Brox- bourne, Herts, W. K. Alford, "Rosedene," Camberley, Surrey, F. H. Haynes, 5, Regent Sq., W.C.1.	2 I N 2 I O 2 I S 2 I T 2 I U 2 I V 2 I X 2 I X 2 I Y 2 I Z 2 I Z 2 I Z	J. F. Fish, Station Rd., Thornton-le-Fylde, W. A. Ward, 26, Marlboro' Rd., Sheffield, H. W. Doudney, St. Luke's Vicarage, Bath, E. White, 16, Cliff Tee., St. Johns, S.E.S. G. A. E. Roberts, Twyford, Hampshire. L. F. White, 10, Priory Rd., Knowle, Bristol. G. R. Marsh, Twyford, Winchester. S. G. Taylor, Littleover, Derby. J. Briggs, 664, Corporation St., Birmingham. A. H. Maidment, Siddons Rd., S.E.23.  — Atkins, Upper Norwood. Downside Sch., Stratton-on-Fosse, Bath.
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2 JP1	J. W. Whiteside, 30, Castle St., Clitheroe.	2 N P	H. G. Treadwell, Middleton Cheney, Banbury.
2 1 0 }	M. C. Ellison, Hutton's Ambo Hall, York.	2 N Q	R. J. I. Morton, 14, Woodside Rd. Kingston.
2 J Ü	E. J. Pearcey, 610, Fulham Rd., S.W.6.	2 N R	J. K. Hassall, Wooden Box, Burton-on-Trent.
2 J V	A. J. Robbins, Station Rd., Epping, Essex.	2 N S 2 N V)	M. Burchill, 30, Leighton Rd., Southville, Bristol.
2 J W	J. R. Barrast, Westgate Court, Canterbury.	2 N W f	H. Littley, Lodge Rd., West Bromwich.
2 J X	L. L. Vizard, 12, Seymour Gardens, Ilford.	2 N Y )	
2 TZ	R. D. Spence, Craighead House, nr. Huntly.	2 N Z	J. N. C. Bradshaw, Ambrose House, Bilsboro',
2 K A	Brighton and Hove Radio Soc.	2 O A	
2 K B	W. E., Earp, 675, Moore Rd., Mapperley, Notts.		E. A. Anson, Morton Cott., Port Seto., E. Lothian, Scotland.
2 K C	H. T. Longuebaye, Beckenham.	20D	E. J. Simmonds, Queensway, Gerrards Cross,
2 K D	Denison Bros., "Wainhouse Tower," Halifax.	2 O F	H. C. Trent, Secondary School, Lowestoft,
2 K F	1. A. Partridge, 22. Park Rd., S.W. to.	20G	A. Cooper, 16, Wentworth Rd., York,
2 K G	A. E. Hay, "Glendale," Abernant, Aberdare.	2 O H	C, S. Goode, "Abbotsford," Hinckley, Leicester-
2 K H	Ashley Wireless Telephone Co., Ltd., Livernool.		shire.
2 K K	F. Pinkerton, 101, Dartmouth Rd., S.E.23.	201	C. Bain, 5t, Grainger St., Newcastle-on-Tyne.
2 K L	F. Pinkerton, 50, Peakhill, S.E.26.	201	E. A. Hoghton, 52, First Ave., Hove, Sussex.
2 K M	C. Stainton, 155, Estcourt St., Hull.	20L	H. D. Butler, Trebarwith, South Nutfield.
2 K N	A. B. Day, Finchley.	2 O M	H. S. Walker, Park Lodge, Brentford.
2 K O	C. S. Baynton, 48, Russell Rd., Moseley,	2 O.N	H. C. Parker, 56, Shern Hall St., E.17.
2 K P	F. A. Bird, 13, Henrietta Rd., Bath.	2 O P	G. Courtenay-Price, 8, Lausdown Terrace,
2 K Q	H. Taylor, Lettenhall Wood, Wolverhampton.		Cheitenham,
2 K R	E. Edmonds, Jr., 2, Yew Tree Rd., B'ham.	200	D. P. Baker, Cleveland Rd., Welverhampton.
2 K S	C. C. Breakell, "Mill Bank," Church St., Preston,	2 O T )	F. W. Gedge, Hford & District Radio Soc., 157,
2 KT	J. E. Nickless, 83, Wellington Rd., E. rt.	2 O U /	rugh Ka., Hiora.
2 K U	A. J. Selby, 66, Edward St., Burton on Treat.	2 O.W	F. W. Woodward, 5, Portland Gdns., N.4.
2 K W	W. J. Crampton, Weybridge, W. R. Rurne, Thorold Crave, Sola Ches	2 0 X	Dr. Ratcliffe, 22, Wake Green Rd., Moseley.
2 K X	W. R. Burne, Thorold Grove, Sale, Ches. W. Stanworth "Fern Bank" Blackburn	2 O Y	E. J. Hobbs, Wareham, Dorset.
Try 2 KY	W. Stanworth, "Fern Bank," Blackburn.	2 O Z	Wores, Cadets Sig. Co., Worcester,
Rakz	L. Pollard, 209, Cunliffe Rd., Blackpool. B. Clapp, "Meadmoor," Purley.	2 PA	G. Z. Auckland & Son, St. John St., E.C.r.
2 L A	N. F. Yardley, The Castle, Egremone Drive,	5 P B 2 P C	F. C. Hirst, Longwood, Huddersfield,
	Sheriff Hill, Gateshead, Co. Durham.	2 P D	A. G. Davies, Paul Rd., Timperley.
2 L B	British Wireless Supply Co., Ltd., Leeds.	2 P F	W. Harvey-Marston, Willenhall, Staffs.
2 L D	R. J. Cottis, 4, Crondace Rd., Fulham, S.W.6.		R. B. Jefferies, "Lynn Dene," Mount Hill, Kings-
2 L F	P. V. Harris, Chilvester Lodge, Calne, Wilts.	2 P G	Wood, Bristol.
2 L G	H. H. Whitfield, Hall Green, Birmingham.	2 PH	Messrs. B. Hesketh, Ltd., Naylor's Estate, Slough.
2LI	H. C. Wilkinson, 14, Kingswood Ave., N.W.6.	21.11	L. Dore, 139, Lightwoods Rd., Bearwood,
2 L J	Were, Cadet Sig. Coy., Sansome Walk, Worcester.	2 P I )	Smethwick.
2 L K)		2 P J }	College Wireless Soc., Loughborough,
2 L I. i	S. Kniveton, 22, Breadway, Kirkstall, Leeds.	2 P K	Universal Radio Co., New Bridge St., Newcastle.
2 L M) -	N C III II DI II I	2 P L	Major S ephens, Haddon House, Bridgert.
2 L N J	N. S. Wells, Platt Lane, Hindley, nr. Wigan.	2 P.N	C. J. Pratt, 332, Upper Richmond Rd., S.W.15.
21.0	London B.B.C. Station, 2, Savoy Hill, Strand.	2 P O	N. C. Hardman, Cloughfold, Manchester,
2 L P	A. W. Knight, 26, Stanbury Rd., S.E.15.	2 P P	J. S. Knight, Clark's Hill Nursery, Prestwich,
2 L Q	J. A. Henderson, 18, Elm Hall Drive, Mossley	200	Manchester.
CHARLES OF	Hill, Liverpool.	2 P O	G. E. Mortley, 23, Forest Rd., Tunbridge Wells.
2 L R	J. Scott-Taggart, Beattyville Gdns., Hford.	2 P R	A. E. Whitehead, King's Ride, Camberley.
2 L S	Leeds and Bradford B.B.C. Station, Cabinet	2 PS	J. H. Hill, 18, Fourth Ave., Nottingham,
	Chas., Basinghall St., Leeds.	2 P T	J. Jardine, Hall Rd., W., Blundellsands, nr.
2 L T	A. F. Bartle, 5, Ulundi Rd., Blackheath, S.E.3.		Liverpool.
2 L U	W. A. Appleton, 20, Spencer Pl., Wembley Pk.	2 P U	C. R. W. Chapman, Chaplin Rd., Wembley,
2 L V	R, Tingey, 22, Leinster Gdns., Hyde Pk., W.2.	2 P V	G. Smith Clarke, Kenilworth.
2 L W 2 L X	Tingey Wireless, Ltd., 92, Queen St., W.6.	2 P W	J. Matthewson, 35, Capel Rd., Forest Gate F. 7.
	T. S. Skeet, 36, Duncan Rd., Leicester.	2 P X	H. H. Lassman, 429, Barking Rd., E.6.
2 L Y 2 L Z	H. H. Thompson, 59, Redlands Rd., Penarth.	2 P Y	H. C. Bowles, 51, Gunterstone Road, West Ken-
2 M A	F. A. Mayer, "Stilemans," Wickford, Essex.	ETE!	Sington.
2 M B	P. L. Savage, 14, Norwich Rd., Lowestoft,	2 P Z	A. E. Symmonds, 12, Addison Ave., W.11.
2 M C	E. H. Jupus, 67, St. Paul's Rd., Gloucester,	2 Q A	Dr. H. W. Taylor, Camden House, Cambridge.
2 M D	H. B. Dent, Fleetwood Ave., Westeliff.	20D	J. Ayres, 18, Seaforth Av., New Malden.
2 M F	C. Chipperfield, Victoria Rd., Oulton Broad, Marconi Co., Ltd., 21-25, St. Anne's Court, W.I.	2 Q G	J. S. Alderton, 114, College Rd., Moseley, Hir-
2 M G	C. C. Millar, "Arndene," Bearsden, Glasgow.	20H	mingham.
2 M H	T. Lawton, Brown Edge Vicarage, Stoke-on-		C. Hewins, 42, St. Augustine Ave., Grimsby.
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2 M I	L. McMichael, Ltd., Kilburn, N.W.6.	2 0 K	R. Walton, 70, Moorfield Rd., Pendleton, I Beyer 85 From Lane Bradford
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2 M L	R. C. Clinker, "Tryfn," Bilton, Rugby.	2 Ö N	A. Hobday, Northdown Rd., Margate,
2 M M	C. C. A. Hines, Watley, Twyford, Winchester,	200	P. Pritchard, Broad St., Hereford,
2 M O	F. O. Read, 26, Flanders Rd., Bedford Pk., W.	2 0 P	L. C. Grant, 3. Langborn St., Newcastle on-Tyne,
2 M R	R. H. Reece, 62, Addison Gdns, W. 14	200	Burndept, Ltd., Wembley Park.
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2 M T	Marconi, Ltd., Writtle.	205	S. Ward, 339, Brixton Rd., S.W.9.
2 M-V	- Littley, Lodge Rd., West Bromwich.	2 Q T	C. C. Barnett, Winton Cottage, South Perrott,
2 M Y	H. M. Hodgson, Clifton Honse, Hartford.		Mesterton, Somerset.
2 M Z	J. Mayall, "Burfield," Gloucester.	2 Q U	Lucas & Hurst, 10B, Lansdown Rd., S.F. 2
2 N A	H. Frost, Barr Common, Walsall.	2 Q V	W. R. Lambert, " Breeze Crest," Plane Tree Rd.,
2 N B	N. G. Baguley, 37, Stodman Street, Newark-on-		Hale, Cheshire.
N.C	irent.	2 Q Y	A. Hinderlich, Central Hall, Southall, Middlesex.
2 N C	- Goodwin, Crown St., Duffield.	2 Q Z	B. H. Colquhoun, 3, Eastbrook Rd., S.E.3.
2 N D	E. H. Pickford, 6, Wilson Rd., Sheffield,	2 R B	H. B. Grylls, Carew Rd., Eastbourne.
2 N F	J. S. Whale, Colwyn Bay, N. Wales,	2 R D	G. W. Fairall, 27, Newbridge St., Wham't'n,
2 N H 2 N I	O. Shorwood, 41, Queen's Gate Gdns., S.W.7.	2 R G	E. W. Scammell, 100, Dale End, B'ham,
2 N J	R. H. Lyne, 41, Somerset Rd., Dartford.	2 R H	H. A. Pound, ——.,
2 N K	P Priest 171 Woodside Pd Hudder-Geld	2 R J	F. S. Morgan, East Fairleigh, Kent.
2 N L	P. Priest, 174, Woodside Rd., Huddersfield.	2 R K	A. E. Blackall, 7, Maple Rd., Surbiton.
2 N M	F. J. Hughes, 129, Wells Rd., Bath. G. Marcuse, Queen's Pk., Caterham.	2 R M	S. Cross, 3, Norman Rd., Heaton Moor,
2 N N	BrigGen. H. Palmer, Hill Crest, Epping, Es.	2 R N	D. D. Richards, Bontnewydd Tce., Trelewis.
2 N O	H. R. Adams, Sutton Rd., Walsall.	2 R P	F. W. Emerson, 178, Heaton Moor Rd., Heaton
	And the state of t		Moor, Stockport.

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2 R Q	E. C. R. Strong, Handsworth Wood, B'ham.	2 V P	P.G.A.H. Voigt, 121, Honor Oak Pk., S.E.23.
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De	Wood, Birmingham. T. Hesketh, 42, Castle Hill Avc., Folkestone.	2 V R 2 V S	Burndept, Ltd., Blackheath, S.E.3.  ——, 79, Benlah Hill, London, S.E.19.
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281	6. Holton, 112, Conway Rd., Southgate,	2 W K	G. R. Lewis, 10, Lansdowne Rd., Ashton-on- Mersey, Manchester.
2 S J	W. J. Bryce, 14, Walpole St., Preston, L. S. K. G. Styles, 52, Jerningham Rd., S.E. 14.	2 W L	F. I. Criowell, "Lonkhill," Thorpe, Tamworth.
2 S K 2 S L	K. G. Styles, Bower Mt. Rd., Maidstone,	2 W M	I. W. Pallett, 24, Glenfield Rd., Leicester.
2 S M	R. I. Bates, 34, Abbevgate St., Bury St. Ed.	2 W N	A. H. Wilson, 67, Broad St., Hanley, S-on-T.
250	Thomas Geeson, Alder Cott., Peel St., Macciestica	2 W Q 2 W R	C. H. Gardner, Brierley Hill, Staffs, L. W. Burcham, Chestnut Av., Oulten Broad.
2 S P	<ul> <li>I. Mansfield, 34, Bath St., Southport, Lancs.</li> <li>A. J. Spears, 25, Rawlings Rd., Bearwood,</li> </ul>	2WS	H. E. A. Squelch, 35, Crown Lane, Bromley
250	Smethwick, Birmingham.	W1111	Common. Kent.
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2 S X	F. B. Baggs, 24, Westhorpe St., S.W.13.	2 W U 2 W Y	H. J. Swift, 77, Upper Tulse Hill, S.W.2.
2 S Y 2 S Z	H. Stevens, 25, Oaklands Rd., Whampton, W. H. Brown, Mill Hill Sch., N.W.7.	2 WZ	A. Hare-Hobson, 32, Wilbury Rd., Hove.
2 TA	H. Andrews, 8, North Grove, Highgate, N.D.	2 X A	C. H. Townson, Farm School, Warminster.
2 T B 1	H. W. Sellers, 18, Edgerton Grove Rd., Hudders-	2 X B 2 X C	G. Z. Auckland & Son, 35, Douglas Rd., N.r. H. Johnson, Chestnut Walk, Worcester.
2 TG	w. Winkler (for Edinburgh and District Radio	2 X D	H. R. Gladwell, London Rd., Abridge, Essex.
2 T F	Soc.), 9, Ettrick Rd., Edinburgh.	2 X F	E. T. Chapman, Ringwood Rd., Newtown,
2 T (7)	Dept. of Applied Science, The University,	a X G	A. E. Turville, 108, Abington St., Northampton.
2TH)	Sheffield.	2 X H	A. E. Turville, 108, Abington St., Northampton (Portable).
STI	H. B. Swift, 40, Kingsmead Rd., Tulse Hill,	2 X I	R. H. Wagner, 6, Maresfield Gdns., N.W.3.
gTL.	V. Martin, 128, Dairy House Road, Derby.	2 X J )	Sheffield & Dist. Wireless Soc., St. George's
2 T M	T. H. Mansell, Madresfield Rd., Gt. Malvern.	2 X K I	Square, Sheffield.
2 TN	C. E. Stuart, Polesworth, Tamworth.	2 X L	S. Davis, 222, Lavender Hill, Clapham Junction, S.W.11.
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2 T Q	T. C. Macnamara, 31, Rollscourt Avenue, Herne	2 X N J	Stratton-on-Fosse, Bath.
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2 T S	A. Taylor, 122, Wellington St., Cardiff.		S.E.Ts.
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2 T X 2 T Y	S. Scott, Welham Rd., Norton, Malton.	2XZ	L. T. Dixon, 4, Heythorp St., S.W.18,
ZTZ	E. Iones, Offerton, Stockport.	2 Y F	J. R. Clay, Upper Longbottom, Luddendenfoot,
2 U A	S. B. P. Barnes, 38, Avenue Rd., Highgate.	2 Y G	Yorks, L. G. Boomer, 51, Brook St., S.E.11.
e U C	E. J. Nock, Winstone, 53A, Gunterstone Rd., West Kensington, W.14.	2 Y H	G. E. Duveen, 40, Park Lane, Marble Arch.
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201	L. R. Rowlands, 25, Cholmeley Park, N.6.	2 Y L	W. H. Allen, 126, Newington Causeway, S.E.I.
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2 U M	H. Lloyd, 3, Ventnor Place, Sheffield. 14th Cardiff Lord Mayor's Own Troop B.P.	2 Y 0 )	A. I. L. Douglas, 127, Uxbridge Road, West
a U N	Scouts, V.M.C.A., Cardiff.	2 Y P I	Ealing, S.W.13.
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#U0	H. F. A. Sanderson, 23, Palace Rd., Liandan.	2 Y R	Middlesex.
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2 V N	H. Drury-Lavin, Old House, Sonning, Berks.	2 Z O 2 Z P	G. F. Forwood, West Chart, Limpsheld.
2 V O	A. E. Holmes, 60, Aire View, Cononley, Keighley, Yorks,	2 Z Q -	H. W. Nunn, 49, Leigh Rd., Highbury Pk., N.5,
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A L. Crano, 44, Brookland Roll, Lewichman, S. J. 13  A A Z. Crano, 44, Brookland Roll, Lewichman, S. J. 14  A B O. W. Colding, 65, Bowes St., Blyth, Northumber, J. Limiton, and J. C. C. R. N. Milk. "Barming Mr. Chine M. J. Limiton, and J. C. L. C. R. N. Milk. "Barming Mr. Chine M. J. L. C. A. L. C. R. N. Milk. "Barming Mr. Chine M. J. C. A. L. C. R. M. Spierma, Sp. Sp. Statiture Lane, Hall Green, Brimminham. "Barminham." "Barminha	2 Z Z	D. V. L. Fellows 11d Tark Royal N W to		R. E. Suiton, 37, Beineid Rd., Rochdale.
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2 A B Z 2 C. R. N. Mills, "Barnined", "Church Rd., Gunston, w. Manchester, "Service Mancheste		1 Could Company of the Contract of the Contrac	1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1	worth.
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3 A B Z  4 B Z  5 C G. Oblorn, 31, Princes PE, Av, Golders  5 A F  5 C Green, N. W. 12.  5 A C R  5 C Fosser, E. Mall, Control of the Control		E M Caistan Charles Rectely, Wimborne.		"Leicester Daily Mercury," Leicester.
A B Z E G. Osborn, 34, Princes PE, Av., Geiders SAF SAF C Creens, N.W.1.  2 A C R C Proser, E. Alberthaw ur. Cardiff. SAF SAF C A. Switch, 94, 10 and 11, 12 days and 12 days	- ALLEY	L. M. Spie man, 359, Shalumore Lane, Hall Green,	5AB	L. W. C. Martin, 4. Beer St., Yeovil.
A C K C. Prosser, E. Alberthaw, nr. Cardiff, 2 C C. Prosser, E. Alberthaw, nr. Cardiff, nr. Cardiff	4 5 4		FAC	W. G. Kimber, to Bargesy Rd Catterd
AC R C.	ZABZ	E. G. Osborn, 31, Princes Pk. Av., Golders	5 A.F	I. A. H. Devey 222 Ct Briefdelle St Welver
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A DF A. M. R. Combon, Combe Ref., Crevicho.  A DJ M. Seland.  Sela		L A S. Wright on Jona St. Laith		A. Oregory, 77, Anedive Rd., Forest Gate.
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A 1 N H. White, I. Canterbury Rd., Brixton, S.W. 5. A 1 P H. White, I. Canterbury Rd., Brixton, S.W. 5. A 1 P H. White, I. Canterbury Rd., Brixton, S.W. 5. A 1 P H. Kling, 2, Henslowe Rd., East Dulwich, S.E. 22. A 1 B H. Shade, 140, Newport Rd., Leytonstone, E.II. A 1 V P. C. Osorio, 65, Dartmouth Rd., Cricklewood. A N. W. C. Conton, 65, Dartmouth Rd., Cricklewood. A N. Porter, 20, Luccombe Hill, Bristol. A N. R. W. R. T. Newcombe, St. Michael's Parsonage, Holderness Rd., Hull. A R. W. J. Turberville-Crewe, 112, Prince's Park Av., Golders Green, N.W.11. A L G Glees Green, N.W.11. A L G H. H. Shade, 140, Newport Rd., Eating, W.13. A L G R. Green, J. Ladfrack Edins, W.13. A L G R. Green, J. Ladfrack Edins, W.13. A L G R. Green, J. Ladfrack Edins, W.13. A M. J. Willson, 115, Richmond Rd., Montpeller, Siriol, Willson, 115, Richmond Rd., Montpeller, Siriol, Wick. A G. Priestman, 27, Pearson St., Carters Green, West Bromwich. A M. N. H. Walker, 250, Westburn Rd., Aberdeen. A N. N. F. Harrison, 100, Almod St., Derby, G. R. Green, M.W. St., Cooling, St., Chatham. A E Apps, 345, High St., Chatham. A E		H. B. Gardner, 129, Salisbury Rd., Barnet,	SBH .	
A 1 P H. King, 2, Henslower Rd., East Dulwich, S.E., 25 B K H. King, 2, Henslower Rd., East Dulwich, S.E., 25 B K. N. Blackburne, Chatsworth, Carlisle Pde, Hastings.  A 1 P P. B. Slade, 140, Newport Rd., Cricklewood, A N. Porter, 20, Luccombe Hill, Bristol.  A K G A. N. Porter, 20, Luccombe Hill, Bristol.  A K R Rev, R. T. Newcombe, St. Michael's Parsonage, Holderness Rd., Hull.  A K S W. Holderness Rd., Hull.  A K S W. I. Turberville-Crewe, 111, Prince's Park Av., Golders Green, N.W.11.  A L G Golders Green, N.W.11.  A L G F. N. Coni, The Cottage, Leigham Av., Streatham S C C Mill, S.W.16.  A L R B. C. Elliot, 3, Arzyle Rd., Ealing, W.13.  A L C R. Green, 0, Ladbroke Gdus, W.11.  A L J W. J. S Newcombe, 31, Ackroyd Rd., Forest Hill.  A M G F. Wilson, 115, Kichmond Rd., Montpeller, C K R. Green, 0, Ladbroke Gdus, W.11.  A M G F. Wilson, 115, Kichmond Rd., Montpeller, C K R. F. L. Westbourne Cres. W.2.  A M Y West Bromwich.  A M J H. H. Wilson, 15, Kichmond Rd., Montpeller, C K R. F. L. Westbourne Cres. W.2.  A M Y West Bromwich.  A M S R R. A. Wells, 59, Compton Rd., Winchmore Hill, N. R. R. A. Wells, 59, Compton Rd., Winchmore Hill, N. R. R. A. Wells, 59, Compton Rd., Winchmore Hill, N. R. R. A. Wells, 59, Compton Rd., Winchmore Hill, N. R. R. A. Wells, 59, Compton Rd., Winchmore Hill, N. R. R. A. Wells, 59, Compton Rd., Wells, 115, Richmore Rd., S. E. C. R. Green, 9, Ladbroke Gdus, W.11.  A L G C R. Green, 9, Ladbroke Gdus, W.11.  A M G F. Wilson, 115, Richmond Rd., Forest Hill, S. C G F. L. Westbourne Cres. W.2.  A M Y Woung, Foxombe Rd., Bath.  Bistol, C S. Wise, 12, Crouch End Hill, N. S. C G F. L. Westbourne Cres. W.2.  A M Y Woung, Foxombe Rd., Bath.  Bistol, C S. Wise, 12, Crouch End Hill, N. S. C G G. S. Wise, 12, Crouch End Hill, N. S. C G G. S. Wise, 12, Crouch End Hill, N. S. C G G. S. Wise, 12, Crouch End Hill, N. S. C G G. S. Wise, 12, Crouch End Hill, N. S. C G G. S. Wise, 12, Crouch End Hill, N. S. C G G. G. S. Wise, 12, Crouch End Hill, S. C G G. G. Wise, 12, Crouch End Hill, S. C G G. G. Wise,	2 A H Y	H. S. Woodhouse, 42, King's Rd., Levtonstone,	5 B.I	
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A J B  A J P  B Slade, 140, Newport Rd, Leytonstone, E.H.  A K P  A K G  A K C H  A K G  A K G  A K G  A K G  A K G  A K G  A K G  A K G  A K G  A K G  A K G  A K G  A K G  A K G  A K G  A K G  A K G  A K C H  A K G  A K G  A K G  A K G  A K G  A K G  A K G  A K C H  A K G  A K G  A K C H  A K C H  A K C H  A K C A K C H  A K	2AIP	H. King v. Henslowe Rd Fast Dulwich S.F		W. Brown, 52, Winstoman Rd., Uneitennam,
Mastings 2A 1 P 2 B S Bade, 140, Newport Rd. Leytonstone, E. 11. 3 B M 2 A K I 2 A K I 2 A K I 3 A N, Portey, o, Laccombe Hill, Bristol. 3 B P 3 B N 3 B R 3 B N 4 N, Portey, o, Laccombe Hill, Bristol. 3 B R 4 K I 3 K R 5 Rev. 1. I. Newcombe, St. Michael's Parsonage, 4 Ratingar Ave., West Ealing, W. 13. 5 B R 5 B R 5 B R 5 B R 6 A N, Portey, o, Laccombe Hill, Bristol. 5 B R 6 A N, Portey, o, Laccombe Hill, Bristol. 6 A N, Portey, o, Laccombe Hill, Bristol. 7 B R 8 C A N, Portey, o, Laccombe Hill, Bristol. 8 B R 8 C A N, Portey, o, Laccombe Hill, Bristol. 8 B R 8 C A N, Portey, o, Laccombe Hill, Bristol. 9 B R 9 C C A N, L. Valtes, 140, 20 Oldham Rd., Rochdyle. 1 L. V. Clark, 4, Compton Cres, W.4. 1 L. V. Clark, 4, Compton Cres, W.4. 1 N. N. Ryan, 88, Home Park Rd., S.W. 10. 1 C A W. Young, Foxombe Rd., S.W. 10. 1 C A W. Young, Foxombe Rd., Reading. 1 C C A W. Young, Foxombe Rd., Bath. 1 D Subsech. 1 C F G. S. Wise, 122 Crouch End Hill, N.8, 1 C C S. Wise, 122 Crouch End Hill, N.8, 1 C C S. Wise, 122 Crouch End Hill, N.8, 1 C C S. Wise, 122 Crouch End Hill, N.8, 1 C C S. Wise, 122 Crouch End Hill, N.8, 1 C C S. Wise, 122 Crouch End Hill, N.8, 1 C C S. Wise, 122 Crouch End Hill, N.8, 1 C C S. Wise, 122 Crouch End Hill, N.8, 1 C C S. Wise, 122 Crouch End Hill, N.8, 1 C C S. Wise, 122 Crouch End Hill, N.8, 1 C C S. Wise, 122 Crouch End Hill, N.8, 1 C C S. Wise, 122 Crouch End Hill, N.8, 2 C C S. Wise, 122 Crouch End Hill, N.8, 2 C C S. Wise, 122 Crouch End Hill, N.8, 2 C C S. Wise, 122 Crouch End Hill, N.8, 2 C C S. Wise, 122 Crouch End Hill, N.8, 2 C C S. Wise, 122 Crouch End Hill, N.8, 2 C C S. Wise, 122 Crouch End Hill, N.8, 2 C C S. Wise, 122 Crouch End Hill, N.8, 2 C C S. Wise, 122 Crouch End Hill, N.8, 2 C C S. Wise, 122 Crouch End Hill, N.8, 2 C C S. Wise, 122 Crouch End Hill, N.8, 2 C C S. Wise, 122 Crouch End Hill, N.8, 3 C C S. Wise, 122 Crouch End Hill, N.8, 3 C C S. Wise, 122 Crouch End Hill, N.8, 3 C C S. Wise, 122 Crouch End Hill, N.8, 3 C C S. Wise, 122 Crouch End Hill, N.8, 3 C C S. Wise, 122 Crouch		N Blackburge Chatchorth Carliste Die	PPF	A. E. Vick, 19, Gresham Rd., Hall Green, Eir-
2 A J P 2 A J P 5 C, Osorio, 65, Dartmouth Rd., Cricklewood. 2 A K G 2 A K G 2 A K G 2 A K G 2 A K R 2 A K R 3 A N. Porter, 20, Luccombe Hill, Bristol.  — 4, Rathgar Ave, West Ealing, W.13.  ERV, R. T. Newcombe, St. Michael's Parsonage, Holderness Rd., Hull.  2 A K S 4 C R 6 Coldiers Green, N.W.11.  2 A L G 5 B R 5 B V 4 C R 6 Coldiers Green, N.W.11.  2 A L G 5 C F 6 C, Cosorome Rd., Wall.  2 A L G 6 C R 6 C C C R 6 C C C R 6 C C C C C C C C C C C C C C C C C C C		Harrison Charles Charles Carnete Page,		mingham.
A K G  A K G  A K G  A K G  A K G  A K G  A K G  A K G  A K R C Cosorio, 05, Dartmouth Rd., Cricklewood, A K G  A K G  A K G  A K G  A K G  A K G  A K G  A K R S G  A K Rathgar Ave, West Ealing, W.13.  A K S  B C K  Holderness Rd, Hull.  A K S  W J. Turberville-Grewe, 111, Frince's Park Av., Golders Green, N.W.11.  A L G  F K K, Coni, The Cottage, Leigham Av., Streatham Golders Green, N.W.11.  A L G  C R. Green, 9, Laddroke Gdins, W.13.  A L U G. R. Green, 9, Laddroke Gdins, W.13.  A L U G. R. Green, 9, Laddroke Gdins, W.13.  A L U G. R. Green, 9, Laddroke Gdins, W.13.  A L U G. R. Green, 9, Laddroke Gdins, W.13.  A L U G. R. Green, 9, Laddroke Gdins, W.13.  A L U G. R. Green, 9, Laddroke Gdins, W.13.  A L U G. R. Green, 9, Laddroke Gdins, W.13.  A L U G. R. Green, 9, Laddroke Gdins, W.13.  A L U G. R. Green, 9, Laddroke Gdins, W.13.  A L U G. R. Green, 9, Laddroke Gdins, W.13.  A L U G. R. Green, 9, Laddroke Gdins, W.13.  A L U G. R. Green, 9, Laddroke Gdins, W.13.  A L U S. Newcombe, 31, Ackroyd Rd., Forest Hill, 5 C G  Bill, S.W.16.  A L J H. S. Newcombe, 31, Ackroyd Rd., Forest Hill, 5 C G  C S. Lyels, 62, Bishopton Rd., Montpeller, 15 C K  Bill, S. S. G. Bishopton Rd., Montpeller, 15 C K  A G. Priestman, 27, Pearson St., Carters Green, W.St Bromwich.  A M Y W. S. Bromwich.  A M S H. H. Walker, 250, Westburn Rd., Aberdeen.  A M S H. H. Walker, 250, Westburn Rd., Aberdeen.  A M S H. H. Walker, 250, Westburn Rd., Cambridge, 15 D K  A M S H. H. Walker, 250, Westburn Rd., Cambridge, 15 D K  A E. Cliver, 2, Salisbury St., South Shields.  A E. Oliver, 3, West Parade, Peterborough.  A E. Oliver, 3, West Para	- 110	D C Cl. S.	5 B M	1. T. Quick, 164, Portland Rd., Edgbaston,
2 A K G 2 A K I 2 A K I 3 A K R 2 A K I 3 A K R 2 A K R 3 A N. Porter, 20, Luccombe Hill, Bristol. 2 A K R 3 A K R 4 A K R 5 B R 5 B R 5 B R 6 C	344	P. D. Slade, 140, Newport Rd., Leytonstone, E.11.	5 B P	R. A. Wells, so, Compton Rd, Winchmore 1991
A K G A A Porter, 20, Luccombe Hill, Bristol.  — 4A K R Rev. R. T. Newcombe, St. Michael's Parsonage, Holderness Rd, Hull.  A K S W. J. Turberville-Crewe, 171, Prince's Park Av., Golders Green, N.W.31.  A L G Golders Green, N.W.31.  F. N. Coni, The Cottage, Leigham Av., Streatham Hill, S.W.16.  A L R B. C. Elliot, 3, Argyle Rd, Ealing, W.13.  A L V C. R. Green, 9, Ladbroke Gdins, W.13.  A L J. S. Newcombe, 31, Ackrovd Rd., Forest Hill, S. Newcombe, 31, Ackrovd Rd., Forest Hill, F. Wilson, 115, Richmond Rd., Montpeller, Bristol, 115, Richmond Rd., Montpeller, S. C. L. G. C. Styles, 62, Bishopton Rd., Bearwood, Smethwick.  A M V V M C. Styles, 62, Bishopton Rd., Bearwood, Smethwick.  A M V V R. H. Walker, 250, Westburn Rd., Aberdeen.  A N S. H. H. Walker, 250, Westburn Rd., Aberdeen.  A N S. H. H. Walker, 250, Westburn Rd., Aberdeen.  A N S. H. H. Walker, 250, Westburn Rd., Aberdeen.  A N S. H. H. Walker, 250, Westburn Rd., Cambridge.  A S. R. E. Harrison, 190, Almond St., Derby.  A S. C. Render Harrison, 45, Howard Road, Church Hill, Walthamstow, E.17.  C E. Bateman, "Monkleigh," Drove Rd., Patcham, Brighton.  A S. A. E. Oliver, 2, Salisbury St., South Shields.  A E. Apps, 345, Hild St., Chatham.  A E. Apps, 345, Hild St., Chatham.  B G. W. Honens, 160, Hills Rd., Cambridge.  W. E. Rhodes, "Homefield," Histon, Cambridge.  D. Reisharis, "Marmetz House," Bontnewydd  S D V Solding, Sa, William St., Hurst, Ashton-wall, "Hill, Shears, Solding Rd., Cambridge, San Wallam St., Hurst, Ashton-wallam, Patch, Chelsmford, Essex.  C C H. C. Green, L. A. K. Halconb, "South Dene," 106, Mills Rd., Cambridge, San Wallam, San Rd., San Rd., Sc. Claber, South Chel		F. C. Osorio, 65, Dartmouth Rd., Cricklewood,		Not
A Rev. R. T. Newcombe, St. Michael's Parsonage, Holderness Rd., Hull.  A K. T. Newcombe, St. Michael's Parsonage, Holderness Rd., Hull.  A K. T. Newcombe, St. Michael's Parsonage, Golders Green, N.W.11.  A L. W. J. Turberville-Crowe, 111, Prince's Park Av., Golders Green, N.W.11.  A L. W. J. Turberville-Crowe, 112, Prince's Park Av., Golders Green, N.W.11.  A L. W. J. Turberville-Crowe, 112, Prince's Park Av., Golders Green, N.W.11.  A L. W. J. Turberville-Crowe, 112, Prince's Park Av., Golders Green, N.W.11.  A L. W. J. Turberville-Crowe, 112, Prince's Park Av., Golders Green, N.W.11.  A L. W. J. Turberville-Crowe, 112, Prince's Park Av., Golders Green, N.W.11.  A L. W. J. Turberville-Crowe, 112, Prince's Park Av., Golders Green, N.W.11.  A L. W. Voon, 16, Reverbourne Cress, W.2.  A W. Young, Foxcombe Rd., Reading. W. J. Turberville-Crowe, 113, Reverbourne Cress, W.2.  A W. Young, Foxcombe Rd., Bath.  C C. W. W. D. L. Yalee-Fish, Mansheld Rd., Reading.  C C. K. E. Hartridge, 14, Westbourne Cress, W.2.  A W. Young, Foxcombe Rd., Bath.  C C. W. W. Young, Foxcombe Rd., Bath.  C C. W. W. Young, Foxcombe Rd., Bath.  C C. K. E. Hartridge, 14, Westbourne Cress, W.2.  A W. Young, Foxcombe Rd., Bath.  C C. K. E. Hartridge, 14, Westbourne Cress, W.2.  A W. Young, Foxcombe Rd., Bath.  C C. K. E. Hartridge, 14, Westbourne Cress, W.2.  A W. Young, Foxcombe Rd., Bath.  C C. K. E. Hartridge, 14, Westbourne Cress, W.2.  A W. Young, Foxcombe Rd., Bath.  C C. K. E. Hartridge, 14, Westbourne Cress, W.2.  A W. Young, Foxcombe Rd., Bath.  C C. K. E. Hartridge, 14, West Path.  C C. K. E. Hartridge, 14, West Path.  C C. K. E. Gardin, 35, Abley Rd., N.W.8  C C. W. Hononas, 169, Allowershal	2 AKG	A. N. Porter, 20, Luccombe Hill, Bristol.	* R R	
Rev. R. I. Newcombe, St. Michael's Parsonage, Holderness Rd., Hull.  2 AL G W. J. Turberville-Crewe, 111, Prince's Park Av., Golders Green, N.W.11.  2 AL G F. N. Coni, The Cottage, Leigham Av., Streatham Hill, S.W.16.  2 AL R B. C. Elliot, 3, Argyle Rd., Ealing, W.13.  4 AL U C. R. Green, 9, Ladbroke Gdns., W.11.  4 AL U C. R. Green, 9, Ladbroke Rd., Forest Hill.  5 C F. Wilson, 115, Richmond Rd., Montpeller, 5 C R. Baiderton, 6, Clough Tee, Barnoldswick.  1 F. Wilson, 115, Richmond Rd., Montpeller, 5 C R. Baiderton, 6, Clough Tee, Barnoldswick.  2 AM V A. G. Priestman, 27, Pearson St., Carters Green, West Bromwich.  4 AN X J. H. Walker, 250, Westburn Rd., Aberdeen.  4 N B A. J. Thornton, 38, Battersea Pk. Rd., S.W.11.  5 C W. K. K. H. Walker, 250, Westburn Rd., Cambridge.  5 C Y. E. Bateman, "Monkleigh," Drove Rd., Patcham, Brighton.  5 D C. E. Bateman, "Monkleigh," Drove Rd., Patcham, Brighton.  5 D C. E. Bateman, "Monkleigh," Drove Rd., Patcham, Brighton.  5 D C. W. Carter, 34, West Parade, Peterborough.  5 D C. W. Carter, 34, West Parade, Peterborough.  5 D C. W. Carter, 34, West Parade, Peterborough.  5 D C. W. Carter, 34, West Parade, Peterborough.  5 D C. W. Carter, 34, West Parade, Peterborough.  5 D C. W. H. N. Ryan, 88, Hone Park Rd., S.W.12.  5 D V. C. S. Wise, 12, Grouch End Hill, N.8.  6 C F. L. W. Dean, 54, Westbourne Cress, W.2.  4 W. Young, Foxcombe Rd., Bath.  W. Wolley, Fox Counch End Hill, N.8.  5 C F. G. S. Wise, 12, Crouch End Hill, N.8.  6 C F. L. W. Dean, 54, Pill St., Cogan, Glam.  8 C. F. L. W. Dean, 54, Pill St., Cogan, Glam.  8 C. F. L. W. Dean, 54, Pill St., Cogan, Glam.  9 C S. Wise, 12, Crouch End Hill, N.8.  8 L. H. Pearson, 54, 56, Long Row, Nottingham.  5 C V. H. H. Very, 18, 56, Long Row, Nottingham.  5 C V. H. H. Walker, 250, Westburn Rd., Aberdeen.  5 C V. H. H. Walker, 250, Westburn Rd., S.W.11.  5 C V. H. S. Very, 19, 11, 11, 11, 11, 11, 11, 11, 11, 11	= AKI	-, 4. Rathgar Ave., West Ealing, Witz		V Clark Contract Cont
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W. J. Iurberville-Crewe, 111, Prince's Park Av., Golders Green, N.W.11.  F. N. Coni, The Cottage, Leigham Av., Streatham Hill, S.W.16.  AL R. B. C. Elliot, 3, Argyle Rd., Ealing, W.13.  AL Z. C. R. Green, 9, Ladbroke Edins, W.11.  AMG J. Wisherd, 12, Wisherd, 13, Ackroyd Rd., Forest Hill. S. C. F. G. S. Wise, 12, Crouch End Hill, N.S. F. L. W. Dean, 54, Fill St., Cogan, Glam. J. Balderton, 6, Clough Tec., Barnoldswick. L. H. Pearson, 54, 56, Long Row, Nottingham. Sc. V. West Bromwich.  AMV A. G. Priestman, 27, Pearson St., Carters Green, V. C. S. West Bromwich.  A. J. H. Walker, 259, Westburn Rd., Aberdeen.  A. J. Hornton, 38, Battersea Pk. Rd., S.W.11.  A. J. Hornton, 38, Battersea Pk. Rd., S.W.11.  A. J. Hornton, 38, Battersea Pk. Rd., S.W.12.  A. J. Hornton, 38, Battersea Pk. Rd., S.W.12.  A. J. Hornton, 38, Battersea Rd., Cambridge.  A. E. G. S. Wish, 36, B. Rhodes St., Halifax, Yorks.  G. Render Harrison, 45, Howard Road, Church Patcham, Brighton.  A. E. Oliver, 2, Salisbury St., South Shields.  A. E. Oliver, 3, West Parade, Peterborough.  A. E. Oliver, 4, Westbourne Cress, W.2.  A. W. Fithing, 5, 4, Westbourne Cress, W.2.  A. W. Fithing, 5, 5, Touch End Hill, N.S.  B. C. K. L. W. Dean, 54, Fill St., Corun Hill, N.S.  C. C. W. H. Neeld, 42, Redbridge Lane, Wanstead, E.T.  S. D. D. Bicharis, W. W. Wanstead, E.T.  S. D. W. T. Ared, Devonshire Rd., St. Anne's-on-Sea.  M. H. H. Walker, 56, Park Rd., St. Annes-on-Sea.  Chelsmford Radio-Engineerin		Holderness Rd. Hull	2 0 1	H. N. Ryan, 88, Home Park Rd., S.W.19.
Golders Green, N.W.11.  F. N. Coni, The Cottage, Leigham Av., Streatham Hill, S.W.16.  AL R. B. C. Elliot, 3, Argyle Rd., Ealing, W.13.  AL J. C. R. Green, 9, Ladbroke Gdns, W.11.  AM G. F. Wilson, 115, Richmond Rd., Montpeller, Bristol  C. Styles, 62, Bishopton Rd., Bearwood, Smeth-Wilson, 115, Richmond Rd., Montpeller, Bristol  C. Styles, 62, Bishopton Rd., Bearwood, Smeth-Wilson, 115, Richmond Rd., Montpeller, Bristol  C. Styles, 62, Bishopton Rd., Bearwood, Smeth-Wilson, 115, Richmond Rd., Montpeller, Bristol  C. Styles, 62, Bishopton Rd., Bearwood, Smeth-Wilson, 115, Richmond Rd., Montpeller, Sc. V. R. J. H. Walker, 250, Westham, 27, Pearson St., Carters Green, West Bromwich  A. J. H. Walker, 250, Westburn Rd., Aberdeen, M. J. H. Walker, 250, Westburn Rd., Aberdeen, A. J. I. H. Walker, 250, Westburn Rd., S.W.11.  ANN F. Harrison, 190, Almond St., Derby, G. Turney, 88, Chesterton Rd., Cambridge.  ANN F. Harrison, 45, Howard Road, Church Balch, Brighton.  A. Sandford, 36, Wattis Rd., Bearwood, Smeth-Wilson, Brighton.  A. E. Oliver, 2, Salisbury St., South Shields.  A. E. Oliver, 3, West Patade, Peterborough.  A. E. Hoomes, 160, Hills Rd, Cambridge.  B. W. H. Neeld, 42, Redbridge Lane, Wanstead, E.rr.  B. D. D. Richards, W. Mametz House, Bontnewydd.  D. D. Richards, W. J. L. P., Rushing Rd., St. Annes-on-Sea.  Chelsmford, Radio-Engineering Co., Rainsford Chelsmf	-4 8 8	W. I. Tushamilla Cassas and D. Lant, D. L.	-5 B W	A. de Villiers, 161, Westminster Bridge Rd., S.E.r.
Configure of Configure (Leigham Av., Streatham St. C. C. Hill, S.W.16.  ALR B. C. Elliot, 3, Argyle Rd., Ealing, W.13.  ALU C. R. Green, 9, Ladbroke Gdns., W.17.  ALZ H. S. Newcombe, 31, Ackreyd Rd., Forest Hill, S.C. F. C. R. Green, 9, Ladbroke Gdns., W.17.  AMG F. Wilson, 115, Richmond Rd., Montpelier, 5 C. R. Bristol, 115, Richmond Rd., Montpelier, 5 C. R. Bristol, 115, Richmond Rd., Montpelier, 5 C. R. Green, 9, Ladbroke Gdns., W.17.  AMG F. Wilson, 115, Richmond Rd., Montpelier, 5 C. R. Garreson, 9, 156, Long Row, Nottingham. 5 C. S. Wise, 12, Crouch End Hill, N.8, F. L. W. Dean, 54, Fill St., Cogan, Glam. 1, Balderton, 6, Clough Tec., Barnoldswck. L. H. Pearson, 5, 156, Long Row, Nottingham. 5 C. S. Wise, 12, Crouch End Hill, N.8, F. L. W. Pearson St., Carters Green, 5 C. S. Wise, 12, Crouch End Hill, N.8, F. L. W. S. C. S. Wise, 12, Crouch End Hill, N.8, F. L. W. P. C. S. Wise, 12, Crouch End Hill, N.8, F. L. W. P. Monte, 15 C. S. Wise, 12, Crouch End Hill, N.8, F. L. W. P. Monte, 15 C. S. Wise, 12, Crouch End Hill, N.8, F. L. W. P. C. S. Wise, 12, Crouch End Hill, N.8, F. L. W. P. C. S. Wise, 12, Crouch End Hill, N.8, F. L. W. P. C. S. Wise, 12, Crouch End Hill, N.8, F. L. W. P. C. S. Wise, 12, Crouch End Hill, N.8, F. L. W. P. C. S. Wise, 12, Crouch End Hill, N.8, F. L. W. P. C. S. Wise, 12, Crouch End Hill, N.8, F. L. W. H. P. W. S. C. V. H. P. C. S. Wise, 12, Crouch End Hill, N.8, F. L. W. H. P. C. S. Wise, 12, Crouch End Hill, N.8, F. L. W. H. P. W. S. C. V. H. P. C. S. Wise, 12, Crouch End Hill, N.8, F. L. W. H. Monkley, S. C. V. H. P. W. S. C. S. Wise, 12, Crouch End Hill, N.8, F. L. W. H. P. W. S. C. V. H. H. P. Washea, Cloudy, S. C. V. R. L. H. P. P. W. S. C. V. H. P. Nutter, 243A, Selhurst Rd., S. E. 25. W. T. Alecdon, G. Gordon, 133, Old St., Ashton-under-Lyne, G. Gordon, 133,	-41.41.52	W. J. Purbervine-Crewe, 111, France's Park Av.,	5 CA	N. L. Yates-Fish, Mansfield Rd., Reading.
F. N. Coni, The Cottage, Leigham Av., Streatham Hill, S.W.16.  2 A L R B. C. Elliot, 3, Argyle Rd., Ealing, W.13.  2 A L Z C. R. Green, 9, Ladbroke Gdins, W.11.  2 A L Z H. S. Newcombe, 31, Ackroyd Rd., Forest Hill. Brisfol, Brisfol, C. Styles, 62, Bishopton Rd., Bearwood, Smethwick.  2 A M V C. Styles, 62, Bishopton Rd., Bearwood, Smethwick.  2 A M V C. Styles, 62, Bishopton Rd., Bearwood, Smethwick.  2 A M V C. Styles, 62, Bishopton Rd., Bearwood, Smethwick.  2 A M V C. Styles, 62, Bishopton Rd., Bearwood, Smethwick.  3 A G. Priestman, 27, Pearson St., Carters Green, West Bromwich.  4 A G. Priestman, 27, Pearson St., Carters Green, West Bromwich.  5 C V West Bromwich.  5 C V C. Styles, 62, Bishopton Rd., Aberdeen.  5 C V West Bromwich.  6 C V C. Styles, 62, Bishopton Rd., Bearwood, Smethwick.  6 C V C. Styles, 62, Bishopton Rd., Bearwood, Smethwick.  6 C V C. Styles, 62, Bishopton Rd., Bearwood, Smethwick.  6 C V C. Styles, 62, Bishopton Rd., Bearwood, Smethwick.  6 C V C. Styles, 62, Bishopton Rd., Bearwood, Smethwick.  6 C V C. Styles, 62, Bishopton Rd., Bearwood, Smethwick.  6 C V C. Styles, 62, Bishopton Rd., Bearwood, Smethwick.  6 C V C. Styles, 62, Bishopton Rd., Bearwood, Smethwick.  6 C V C. Styles, 62, Bishopton Rd., Bearwood, Smethwick.  6 C V C. Styles, 62, Bishopton Rd., Bearwood, Smethwick.  6 C V C. Styles, 62, Bishopton Rd., Bearwood, Smethwick.  6 C V C. Styles, 62, Bishopton Rd., Bearwood, Smethwick.  6 C V C. Styles, 62, Bishopton Rd., Bearwood, Smethwick.  6 C V C. Styles, 62, Bishopton Rd., Bearwood, Smethwick.  7 D D Barnes, Ainsdale, Southport.  8 D D Carter, 34, West Parade, Peterborough.  8 D D Carter, 34, West Parade, Peterborough.  8 D P Sichards, "Marnetz House," Bontnewydd  8 D P Sichards, "Marnetz House," Bontne	2110	Golders Green, N.W.11.	₹CB	K. E. Hartridge, 14. Westhourne Cres. W.
### AL R B. C. Elliot, 3, Argyle Rd., Ealing, W.13.  ### AL U C. R. Green, 9, Ladbroke Gdns, W.11.  ### AU C. L. Green, 9, Ladbroke Gdns, W.11.  ### AU C. L. Green, 9, Ladbroke Gdns, W.11.  ### AU C. L. Green, 9, Ladbroke Gdns, W.11.  ### AU C. Styles, 62, Bishopton Rd., Montpeller, 5 C K.  ### AU C. Styles, 62, Bishopton Rd., Montpeller, 5 C K.  ### AU C. Styles, 62, Bishopton Rd., Montpeller, 5 C K.  ### AU C. Styles, 62, Bishopton Rd., Montpeller, 5 C K.  ### AU C. Styles, 62, Bishopton Rd., Bearwood, Smeth-  ### AU C. Styles, 62, Bishopton Rd., Bearwood, Smeth-  ### AU C. Styles, 62, Bishopton Rd., Bearwood, Smeth-  ### AU C. Styles, 62, Bishopton Rd., Bearwood, Smeth-  ### AU C. A. B. Oliver, 9, Salisbury St., South Shields.  ### AU C. R. Green, 9, Carters Green, 5 C V.  ### AU C. A. B. C. Glens, 12, Sulphane Rd., St. Anne Seon-Seo.  ### AU C. A. B. C. Glens, 12, Sulphane Rd., St. Anne Seon-Seo.  ### AU C. R. Green, 94, Montpeller, 12, Sulphane Rd., St. Anne Seon-Seo.  ### AU C. C. St. M. N.	337 ft	F. N. Coni, The Cottage, Leigham Av., Streatham		A.W. Voung, Foxcombe Rd, Rath
ALU C. R. Green, 9, Ladbroke Gdns. W.11.  ALU H. S. Newcombe, 31, Ackroyd Rd., Forest Hill.  F. Wilson, 115, Richmond Rd., Montpelier, 5C K. Bristol.  Bristol.  AMP C. Styles, 62, Bishopton Rd., Bearwood, Smeth-5C S. Wick.  AMV A. G. Priestman, 27, Pearson St., Carters Green, West Bromwich.  AMX J. H. Walker, 259, Westburn Rd., Aberdeen.  AND F. Harrison, 190, Almond St., Derby.  AND F. G. Turney, 88, Chesterton Rd., Cambridge.  AND G. Render Harrison, 45, Howard Road, Church Platcham, Brighton.  A. Sandford, 36, Wattis Rd., Bearwood, Smeth-6a, Queensland Av., Coventry.  A. E. Oliver, 2, Salisbury St., South Shields.  A. E. Oliver, 2, Salisbury St., South Shields.  A. E. Oliver, 2, Salisbury St., South Shields.  A. E. Oliver, 2, Redbridge Lane, Wanstead, E. IT. F. Rhoedes, "Homefield," Histon, Cambridge.  B. W. Thomas, 169, Hills Rd., Cambridge.  B. D. Whittaker, 56, Park Rd., St. Annes-on-Sea.  Chelmford Te. Banderton, 6, Clough Tee. Banderton, 6, Congh. Nathanananananananananananananananananana		Hill, S.W.16.	= CD	Wichards
A L U C. R. Green, 9, Ladbroke Gdus, W.17.  A L S. Newcombe, 31, Ackroyd Rd., Forest Hill.  A M G F. Wilson, 115, Richmond Rd., Montpeller, 5 C K Bristol.  C. Styles, 62, Bishopton Rd., Bearwood, Smethwick.  A M V S. C V C. K. J. Harrison, 15, Klainston, 15, Klainston, 160, K	=ALR	B. C. Elliot, z. Argyle Rd., Faling, W ra	TC F	E C C William Count II I Trem at a
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6.1) P & Crowther are Poundhau Da	Loode
The District Strandalo Pol Linguist 6 D.H. P. I. Manutan v. Largingham D.I.	Nam Cress
H. W. Everett, 30, Grounneck Rd. Elibert 6 DW D. H. Johnson, 12 Clarifold Com.	Te a
Tick, 87, Mayo Rd., Willesden, N.W.10, 6 D V C. Keith-Murray, "Paultons," Roi	11-10-
F. B. Thomas, 7. Mornington Villas, E. y. 6 D.Z. I. Halcomb. 106 Millhouses, Long	Chair
Thompson, 1, Chase Side Pl., Enfield. 6 F A G. E. Wardle, "Kingsdown," Colle	NOW DEL NEWS
1 Hompson, r, Chase Side Pl., Enfield, 6 F A G. E, Wardle, "Kingsdown," Colle Lord, 6 Trafalgar Tee., Dewsbury, Blundellsands, Liverpool.	ege Kur North
Blundellsands, Liverpool, Broadcasting Station.  6 F B  W. Grocott, Church Rd., Oxley.	
Broadcasting Station. 6 F B W. Grecott, Church Rd., Oxley. Harrison, 10, Lake Rd., Lytham. 6 F C L. S. Taylor, 6, Bankfield Rd., Hu	d toward 1.1
Lieberg, F., Chase Side Pl., Enfield.  6 F A G. E., Wardle, "Kingsdown," College Blundellsands, Liverpool.  G. E., Wardle, "Kingsdown," College Blundellsands, Liverpool.  H. G. E., Wardle, "Kingsdown," College Blundellsands, Liverpool.  W. Grocott, Church Rd., Oxley.  G. E., Wardle, "Kingsdown," College Blundellsands, Liverpool.  H. G. E., Wardle, "Kingsdown," College Blundellsands, Liverpool.  E. G. E., Wardle, "Kingsdown," College Blundellsands, Liverpool.  H. G. E., Wardle, "Kingsdown," College Blundellsands, Liverpool.  E. G. E., Wardle, "Kingsdown," College Blundellsands, Liverpool.	udersheld.
48. Lavender Gdns., S.W. 6 F D F. T. Carter, Gleneagle Mansions, S. Frederick St., Widnes, 6 F G N. Hendry, Hertford House, Sa	Streatham.
48. Lavender Gdns., S.W. 6FD F. T. Carter, Gleneagle Mansions, S. 31. 528, Frederick St., Wildres, 6FG N. Hendry, Hertford House, Sa N. Hendry, Hertford Hou	inderson Rd.,
wewcaste-out-Tyte,	at and a particular and a second
6 F H G. W. Livesky, 3, Spring Bank, Ma	arket Drayton.
Lul, Naylor's Estate, Slough, 6 F J G. W. Jarvis, 2r, Baltic House, 6 F K Worcester Cdt, Signal Co., R.C.	conbridge.
Languead, Phroright. 6 F K Worcester Cdt, Signal Co., R.C.	or Signals,
Sansone walk, Worcester,	W. 80
	on St.
	riastings.
A. B. Richardson, 9, Quarry Rd., 1 W. H. Taylor, 37, Bridge St., Warn	rington.

	W W Cooole 26 Kenwyn Rd., W. Wimbledon,	GFG	Air Ministry, Grain.
6WV	V. W. Crook, 26, Keuwyn Rd., W. Wimbledon, A. I. Morgan, "Elysium," Ouseley Rd., Wrays-	GFI	-, Andover.
6WX		GFL	- Calshot.
	bury, Bucks.	GFM	Cattewater Air Station.
6XC	R. R. Sawell, 38, Waddon Rd., Croydon.		
6 X G	57 Hillbeld Kd., N.W.O.	GFO	- Shotwick.
	H. Field, Baggrave Hall, Leicestershire,	GFW	R.A.F. Wireless Tel. Stn., Lee-on-Solent.
6 X Q	S. W. G. Farmery, "The Moorlands," Whinfield,	GFZ	-, Howden,
6 X T	S. W. G. Parmery, The morning, Transcent	GKG	L.M.S.Rly. (Midland Rly.), Heysham Harbour,
	Adel, mr. Leeds.	GKU	—, Devizes.
6 X X	Radio Society of Great Britain (P. R. Coursey		
The state of the s	Hon Sec Marchemont Rd., Richmond).	GKZ	-, West Pier, Grimsby.
e ar vi	F. Cropper, B.Sc., A.I.C., 42, Acres Lane, Staly-	GLA	Stn. A (French Service), Marconi's Wireless Tel.
6 X Y	P. Clopper, D.Sc., Allies, 4-, steres Long		Ca I td Maeth Magid Fosey
	bridge, Cheshire.	CID	Stn. B (Swiss Service), Marconi's Wireless Tell
6 X Z	M. Marshall, "Beach View," Island Rd., New-	GLB	Sille D Ships Del Clerk
-	quay, Cornwall.		Co., Ltd., North Weald, Essex.
e 17 32	H. Field, Baggrave Hall, Leicestershire.	GLD	Land's End Radio.
6 Z X	H. Field, Dagginve Flatt, Intercept und	GLO	Stn. C (Spanish Service), Marconi's Wireless Tel.
6ZY	L. Gordon, 133, Old St., Ashton-under-Lyne.		Co., Ltd., North Weald, Essex.
ACA	—, —, Aldershot.	010	Marconi's Wireless Telegraph Co., Ltd., Ongar,
		GLP	Marcuin's Wheeless Telegraphic con along congress
6BBC	B.B.C. Experimental Station, Hendon,	GLV GNF GNI	G.P.O., Scaforth, Liverpool.
BVG BVH	D. F. Station, Admiralty, Berwick.	GNF	H.M. Wireless, Tel. Stn., N. Foreland, Kent.
BVH	Admiralty Harwich.	GNI	Post Office Niton I, of W.
BVN	D. F. Station, Admiralty, Flamborough,	GNJ	Fastnet Rock Lighthouse, Rockisland, Skibbercen,
	D. F. Station, Admiralty, Lizard.	G.T. J	Tablic Avenus Salarina med avenus
BVY	D. F. Station, Administy, Inches		Ireland.
BWH	Admiralty, Harwich.	GNT	Niton, I.O.W.
BXH	D. F. Station, Admiralty, Orfordness.	GNV	Southern Rly. (L.B.S.C.Rly.), Newhaven,
BXI	D. F. Station, Admiralty, Larne.	GPO	Great Eastern Rly., Parkeston, Harwich.
BXI BXV BYA	D. F. Station, Admiralty, Amlwch.	GPO GRL	Fishmand Wireless Stn. Goodwick, P'broke,
20 C	Admiralty Whitehall	GKL	Southern Rly. (S.E.C.Rly.), Folkestone Harbour.
BIA	Admiralty, Whitehall. Admiralty, Cleethorpes.	GUR	Southern Riv. (S.E.C. Riv.), Policestone Lincolni
BYB	Admiratty, Cicetnotpes.	GVB	East Goodwin Lightship.
BYC	Admiralty, Horsea.	GVC	Gull Lightship.
BYD	Admiralty, Aberdeen.	GVD	South Goodwin Lightship,
BYE	Admiralty, Ipswich.	GVE	Sunk Lightship
BYF	Admiralty, Pembroke:		Tongue Lightship.
DYT		GVF	Tongue Lightship.
BYH	Admiralty, Rosyth.	KCLX	Prof. Wilson, University of Ldn. (King's Col.)
BYI	Admiralty, Scarborough.	MAX	Marconi Co., Broomfield.
BYJ	Admiralty, Felixstowe.	MFT	Marconi's Wireless Telegraph Co., Chiden.
BYI	Admiralty, Sheerness,	MFT	Marconi's Wireless Telegraph Co., Clifden. Marconi's Wireless Telegraph Co., Poole.
BYK	Admiralty, Sheerness,	MHH	Marconi's Wireless Telegraph Co., Poole.
BYK	Admiralty, Sheerness,	MHH	Marconi's Wireless Telegraph Co., Poole.  —, Poldhu.
BYK BYL BYM	Admiralty, Sheerness, Admiralty, Dover. Admiralty, Culver Cliff.	MHH MPO MUU	Marconi's Wireless Telegraph Co., Poole.  —, Poldhu.  Marconi's Wireless Telegraph Co., Carn.
BYK BYL BYM BYN	Admiralty, Sheerness. Admiralty, Dover. Admiralty, Culver Cliff. Admiralty, Portland Bill.	MHH MPO MUU MUV	Marconi's Wireless Telegraph Co., Poole.  —, Poldhu.  Marconi's Wireless Telegraph Co., Carn.  Marconi's Wireless Telegraph Co., Towyn.
BYK BYL BYM BYN BYO	Admiralty, Sheerness, Admiralty, Dover, Admiralty, Culver Cliff, Admiralty, Portland Bill, Admiralty, Rame Head,	MHH MPO MUU	Marconi's Wireless Telegraph Co., Poole.  —, Poldhu.  Marconi's Wireless Telegraph Co., Carn.
BYK BYL BYM BYN BYO BYP	Admiralty, Sheerness, Admiralty, Dover. Admiralty, Culver Cliff. Admiralty, Portland Bill. Admiralty, Rame Head. Admiralty, Cromarty.	MHH MPO MUU MUV MZX	Marconi's Wireless Telegraph Co., Poole.  —, Poldhu.  Marconi's Wireless Telegraph Co., Carn.  Marconi's Wireless Telegraph Co., Towyn.  Marconi's Wireless Telegraph Co., Chelmsford.
BYK BYL BYM BYN BYO BYP	Admiralty, Sheerness, Admiralty, Dover. Admiralty, Culver Cliff. Admiralty, Portland Bill. Admiralty, Rame Head. Admiralty, Cromarty.	MHH MPO MUU MUV MZX Chief Fore	Marconi's Wireless Telegraph Co., Poole.  —, Poldhu.  Marconi's Wireless Telegraph Co., Carn.  Marconi's Wireless Telegraph Co., Towyn.  Marconi's Wireless Telegraph Co., Chelmsford.  Bign Stations
BYK BYL BYM BYN BYO BYP BYS	Admiralty, Sheerness. Admiralty, Dover. Admiralty, Culver Cliff. Admiralty, Portland Bill. Admiralty, Rame Head. Admiralty, Cromarty. Post Office, Portpatrick. Admiralty, Stockton.	MHH MPO MUU MUV MZX Chief Fore	Marconi's Wireless Telegraph Co., Poole.  —, Poldhu.  Marconi's Wireless Telegraph Co., Carn.  Marconi's Wireless Telegraph Co., Towyn.  Marconi's Wireless Telegraph Co., Chelmsford.  Sign Stations  Admiralty, Carnsore.
BYK BYL BYM BYN BYO BYP BYS BYT	Admiralty, Sheerness. Admiralty, Dover. Admiralty, Culver Cliff. Admiralty, Portland Bill. Admiralty, Rame Head. Admiralty, Cromarty. Post Office, Portpatrick. Admiralty, Stockton.	MHH MPO MUU MUV MZX Chief Fore	Marconi's Wireless Telegraph Co., Poole.  —, Poldhu.  Marconi's Wireless Telegraph Co., Carn.  Marconi's Wireless Telegraph Co., Towyn.  Marconi's Wireless Telegraph Co., Chelmsford.  Sign Stations  Admiralty, Carnsore.
BYE BYE BYE BYE BYE BYE BYE BYE	Admiralty, Sheerness. Admiralty, Dover. Admiralty, Culver Cliff. Admiralty, Portland Bill. Admiralty, Rame Head. Admiralty, Cromarty. Post Office, Portpatrick. Admiralty, Stockton.	MHH MPO MUU MUV MZX	Marconi's Wireless Telegraph Co., Poole.  —, Poldhu.  Marconi's Wireless Telegraph Co., Carn.  Marconi's Wireless Telegraph Co., Towyn.  Marconi's Wireless Telegraph Co., Chelmsford.  Bign Stations
BYK BYL BYN BYO BYP BYS BYT BYV BZA	Admiralty, Sheerness, Admiralty, Dover. Admiralty, Culver Cliff. Admiralty, Portland Bill. Admiralty, Rame Head. Admiralty, Cromarty. Post Office, Portpatrick. Admiralty, Stockton. Post Office (tem. closed), Grimsby. Admiralty, Inchkeith.	MHH MPO MUU MUV MZX Chief Fore BVZ BWW BYZ	Marconi's Wireless Telegraph Co., Poole.  —, Poldhu.  Marconi's Wireless Telegraph Co., Carn.  Marconi's Wireless Telegraph Co., Towyn.  Marconi's Wireless Telegraph Co., Chelmsford.  Sign Stations  Admiralty, Carnsore.  Gibraltar, 4,800 metres.  Malta, 4,200 metres.
BYK BYL BYM BYN BYO BYP BYT BYT BYZ BZC	Admiralty, Sheerness. Admiralty, Dover. Admiralty, Culver Cliff. Admiralty, Portland Bill. Admiralty, Rame Head. Admiralty, Cromarty. Post Office, Portpatrick. Admiralty, Stockton. Post Office (tem. closed), Grimsby. Admiralty, Inchkeith. Admiralty (Sig. Sch.), Portsmouth.	MHH MPO MUU MUV MZX Chief Fore BVZ BWW BYZ EAA	Marconi's Wireless Telegraph Co., Poole.  —, Poldhu.  Marconi's Wireless Telegraph Co., Carn.  Marconi's Wireless Telegraph Co., Towyn.  Marconi's Wireless Telegraph Co., Chelmsford.  Bign Stations  Admiralty, Carnsore.  Gibraltar, 4,800 metres.  Malta, 4,200 metres.  Madrid, 3,600 metres.
BYK BYK BYM BYN BYO BYP BYT BYV BZA BZC BZS	Admiralty, Sheerness, Admiralty, Dover, Admiralty, Culver Cliff, Admiralty, Portland Bill, Admiralty, Rame Head, Admiralty, Cromarty, Post Office, Portpatrick, Admiralty, Stockton, Post Office (tem. closed), Grimsby, Admiralty, Inchkeith, Admiralty, Sign Sch.), Portsmouth, Admiralty, Kingsnorth,	MHH MPO MUU MUV MZX Chief Fore BVZ BWW BYZ EAA FL	Marconi's Wireless Telegraph Co., Poole.  —, Poldhu.  Marconi's Wireless Telegraph Co., Carn.  Marconi's Wireless Telegraph Co., Towyn.  Marconi's Wireless Telegraph Co., Chelmsford.  Sign Stations  Admiralty, Carnsore.  Gibraltar, 4,800 metres.  Malta, 4,200 metres.  Madrid, 3,600 metres.  Fiffel Tower, 2,600 metres.
BYK BYL BYM BYN BYO BYP BYT BYT BYZ BZC	Admiralty, Sheerness, Admiralty, Dover, Admiralty, Culver Cliff, Admiralty, Portland Bill, Admiralty, Rame Head, Admiralty, Cromarty, Post Office, Portpatrick, Admiralty, Stockton, Post Office (tem. closed), Grimsby, Admiralty, Inchkeith, Admiralty, Sign Sch.), Portsmouth, Admiralty, Kingsnorth,	MHH MPO MUU MUV MZX Chief Fore BVZ BWW BYZ EAA FL GNV	Marconi's Wireless Telegraph Co., Poole.  —, Poldhu.  Marconi's Wireless Telegraph Co., Carn.  Marconi's Wireless Telegraph Co., Towyn.  Marconi's Wireless Telegraph Co., Chelmsford.  Sign Stations  Admiralty, Carnsore.  Gibraltar, 4,800 metres.  Malta, 4,200 metres.  Madrid, 3,600 metres.  Eiffel Tower, 2,600 metres.  R. H. Houghton, L.B. & S.C.Rly., Newhaven.
BYK BYM BYN BYO BYPS BYT BYV BZC BZS BZT	Admiralty, Sheerness. Admiralty, Dover. Admiralty, Culver Cliff. Admiralty, Portland Bill. Admiralty, Rame Head. Admiralty, Cromarty. Post Office, Portpatrick. Admiralty, Stockton. Post Office (tem. closed), Grimsby. Admiralty, Inchkeith. Admiralty, Inchkeith. Admiralty, Kingsnorth. Admiralty, Tynemouth.	MHH MPO MUU MUV MZX Chief Fore BVZ BVZ BYZ EAA FL GNV HBB	Marconi's Wireless Telegraph Co., Poole.  —, Poldhu.  Marconi's Wireless Telegraph Co., Carn.  Marconi's Wireless Telegraph Co., Towyn.  Marconi's Wireless Telegraph Co., Chelmsford.  Bign Stations  Admiralty, Carnsore.  Gibraltar, 4,800 metres.  Malta, 4,200 metres.  Malta, 4,200 metres.  Eiffel Tower, 2,600 metres.  E. H. Houghton, L.B. & S.C.Rly., Newhaven.  Berne, 3,400 metres.
BYK BYM BYN BYO BYP BYS BYT BYV BZC BZC BZT BZU	Admiralty, Sheerness. Admiralty, Dover. Admiralty, Culver Cliff. Admiralty, Portland Bill. Admiralty, Rame Head. Admiralty, Cromarty. Post Office, Portpatrick. Admiralty, Stockton. Post Office (tem. closed), Grimsby. Admiralty, Inchkeith. Admiralty (Sig. Sch.), Portsmouth. Admiralty, Kingsnorth. Admiralty, Tynemouth. Admiralty, Tynemouth. Admiralty, Immingham.	MHH MPO MUU MUV MZX Chief Fore BVZ BVZ BYZ EAA FL GNV HBB	Marconi's Wireless Telegraph Co., Poole.  —, Poldhu.  Marconi's Wireless Telegraph Co., Carn.  Marconi's Wireless Telegraph Co., Towyn.  Marconi's Wireless Telegraph Co., Chelmsford.  Bign Stations  Admiralty, Carnsore.  Gibraltar, 4,800 metres.  Malta, 4,200 metres.  Malta, 4,200 metres.  Eiffel Tower, 2,600 metres.  E. H. Houghton, L.B. & S.C.Rly., Newhaven.  Berne, 3,400 metres.
BYK BYM BYN BYO BYS BYT BYZ BZC BZC BZZ BZU BZW	Admiralty, Sheerness. Admiralty, Dover. Admiralty, Culver Cliff. Admiralty, Rame Head. Admiralty, Cromarty. Post Office, Portpatrick. Admiralty, Stockton. Post Office (tem. closed), Grimsby. Admiralty, Inchkeith. Admiralty, Kingsnorth. Admiralty, Tynemouth. Admiralty, Tynemouth. Admiralty, Immingham. Admiralty, (D. F. Station), Rhyl.	MHH MPO MUU MUV MZX Chief Fore BVZ BWW BYZ EAA FL GNV HBB HS	Marconi's Wireless Telegraph Co., Poole.  —, Poldhu.  Marconi's Wireless Telegraph Co., Carn.  Marconi's Wireless Telegraph Co., Towyn.  Marconi's Wireless Telegraph Co., Chelmsford.  Bign Stations  Admiralty, Carnsore.  Gibraltar, 4,800 metres.  Malta, 4,200 metres.  Malta, 4,200 metres.  Eiffel Tower, 2,600 metres.  R. H. Houghton, L.B. & S.C.Rly., Newhaven.  Berne, 3,400 metres.  Brussels, 1,680 metres.
BYK BYM BYN BYO BYPS BYT BYV BZC BZS BZT BZT BZL BZL	Admiralty, Sheerness. Admiralty, Dover. Admiralty, Culver Cliff. Admiralty, Portland Bill. Admiralty, Rame Head. Admiralty, Cromarty. Post Office, Portpatrick. Admiralty, Stockton. Post Office (tem. closed), Grimsby. Admiralty, Inchkeith. Admiralty, Inchkeith. Admiralty, Kingsnorth. Admiralty, Tynemouth. Admiralty, Immingham. Admiralty, Immingham. Admiralty, Immingham. Admiralty, Dr. F. Station), Rhyl. Leafield Post Office.	MHH MPO MUU MUV MZX Chief Fore BVZ BWW BYZ EAA FL GNV HBB HS	Marconi's Wireless Telegraph Co., Poole.  —, Poldhu.  Marconi's Wireless Telegraph Co., Carn.  Marconi's Wireless Telegraph Co., Towyn.  Marconi's Wireless Telegraph Co., Chelmsford.  Bign Stations  Admiralty, Carnsore.  Gibraltar, 4,800 metres.  Malta, 4,200 metres.  Madrid, 3,600 metres.  Eiffel Tower, 2,600 metres.  R. H. Houghton, L.B. & S.C.Rly., Newhaven.  Bernc, 3,400 metres.  Brussels, 1,680 metres.  Rome, 3,200 metres.
BYK BYM BYN BYPO BYPS BYT BZC BZC BZZ BZZ BZZ BZZ BZZ BZZ BZZ BZZ	Admiralty, Sheerness. Admiralty, Dover. Admiralty, Culver Cliff. Admiralty, Portland Bill. Admiralty, Rame Head. Admiralty, Cromarty. Post Office, Portpatrick. Admiralty, Stockton. Post Office (tem. closed), Grimsby. Admiralty, Inchkeith. Admiralty, Inchkeith. Admiralty, Kingsnorth. Admiralty, Tynemouth. Admiralty, Tynemouth. Admiralty, Immingham. Admiralty, Immingham. Admiralty (D. F. Station), Rhyl. Leafield Post Office. Cullercoats Post Office.	MHH MPO MUUV MUV MZX Chief Fore BVZ BWW BYZ EAA FL GNV HBB HS ICD LCH	Marconi's Wireless Telegraph Co., Poole.  —, Poldhu.  Marconi's Wireless Telegraph Co., Carn.  Marconi's Wireless Telegraph Co., Towyn.  Marconi's Wireless Telegraph Co., Chelmsford.  Sign Stations  Admiralty, Carnsore.  Gibraltar, 4,800 metres.  Malta, 4,200 metres.  Madrid, 3,600 metres.  Eiffel Tower, 2,600 metres.  R. H. Houghton, L.B. & S.C.Rly., Newhaven.  Berne, 3,400 metres.  Brussels, 1,680 metres.  Rome, 3,200 metres.  Christiania, 8,000 metres.
BYK BYM BYN BYPO BYPS BYT BZC BZC BZZ BZZ BZZ BZZ BZZ BZZ BZZ BZZ	Admiralty, Sheerness. Admiralty, Dover. Admiralty, Culver Cliff. Admiralty, Portland Bill. Admiralty, Rame Head. Admiralty, Cromarty. Post Office, Portpatrick. Admiralty, Stockton. Post Office (tem. closed), Grimsby. Admiralty, Inchkeith. Admiralty, Inchkeith. Admiralty, Kingsnorth. Admiralty, Tynemouth. Admiralty, Tynemouth. Admiralty, Immingham. Admiralty, Immingham. Admiralty (D. F. Station), Rhyl. Leafield Post Office. Cullercoats Post Office.	MHH MPO MUUV MUV MZX Chief Fore BVZ BWW BYZ EAA FL GNV HBB HS ICD LCH LCM	Marconi's Wireless Telegraph Co., Poole.  —, Poldhu.  Marconi's Wireless Telegraph Co., Carn.  Marconi's Wireless Telegraph Co., Towyn.  Marconi's Wireless Telegraph Co., Chelmsford.  Bign Stations  Admiralty, Carnsore.  Gibraltar, 4,800 metres.  Malta, 4,200 metres.  Malta, 4,200 metres.  Eiffel Tower, 2,600 metres.  R. H. Houghton, L.B. & S.C.Rly., Newhaven.  Berne, 3,400 metres.  Brussels, 1,680 metres.  Rome, 3,200 metres.  Christiania, 8,000 metres.  Stavanger, 12,000 metres.
BYK BYM BYNN BYOP BYST BYYV BZC BZZT BZZU BZZU BZZU GCCS	Admiralty, Dover. Admiralty, Culver Cliff. Admiralty, Culver Cliff. Admiralty, Portland Bill. Admiralty, Rame Head. Admiralty, Cromarty. Post Office, Portpatrick. Admiralty, Stockton. Post Office (tem. closed), Grimsby. Admiralty, Inchkeith. Admiralty, Inchkeith. Admiralty, Kingsnorth. Admiralty, Tynemouth. Admiralty, Immingham. Admiralty, Immingham. Admiralty, Inmingham. Admiralty, Inmingham. Admiralty (D. F. Station), Rhyl. Leafield Post Office. Cullercoats Post Office. — Lile of Man.	MHH MPO MUUV MUV MZX Chief Fore BVZ BWW BYZ EAA FL GNV HBB HS ICD LCH LCM	Marconi's Wireless Telegraph Co., Poole.  —, Poldhu.  Marconi's Wireless Telegraph Co., Carn.  Marconi's Wireless Telegraph Co., Towyn.  Marconi's Wireless Telegraph Co., Chelmsford.  Bign Stations  Admiralty, Carnsore.  Gibraltar, 4,800 metres.  Malta, 4,200 metres.  Malta, 4,200 metres.  Eiffel Tower, 2,600 metres.  R. H. Houghton, L.B. & S.C.Rly., Newhaven.  Berne, 3,400 metres.  Brussels, 1,680 metres.  Rome, 3,200 metres.  Christiania, 8,000 metres.  Stavanger, 12,000 metres.  Stavanger, 12,000 metres.  Königswusterhausen, 2,800 metres.
BYK BYM BYYN BYYO BYYS BYYT BYZA BZZC BZZU BZZU GCCS GDX	Admiralty, Dover. Admiralty, Culver Cliff. Admiralty, Culver Cliff. Admiralty, Portland Bill. Admiralty, Rame Head. Admiralty, Cromarty. Post Office, Portpatrick. Admiralty, Stockton. Post Office (tem. closed), Grimsby. Admiralty, Inchkeith. Admiralty, Inchkeith. Admiralty, Kingsnorth. Admiralty, Tynemouth. Admiralty, Immingham. Admiralty, Immingham. Admiralty, Inmingham. Admiralty, Inmingham. Admiralty (D. F. Station), Rhyl. Leafield Post Office. Cullercoats Post Office. — Lile of Man.	MHH MPO MUUV MUV MZX Chief Fore BVZ BWW BYZ EAA FL GNV HBB HS ICD LCH LCM	Marconi's Wireless Telegraph Co., Poole.  —, Poldhu.  Marconi's Wireless Telegraph Co., Carn.  Marconi's Wireless Telegraph Co., Towyn.  Marconi's Wireless Telegraph Co., Chelmsford.  Bign Stations  Admiralty, Carnsore.  Gibraltar, 4,800 metres.  Malta, 4,200 metres.  Malta, 4,200 metres.  Madrid, 3,600 metres.  Eiffel Tower, 2,600 metres.  R. H. Houghton, L.B. & S.C.Rly., Newhaven.  Berne, 3,400 metres.  Brussels, 1,680 metres.  Rome, 3,200 metres.  Christiania, 8,000 metres.  Stavanger, 12,000 metres.  Königswusterhausen, 2,800 metres.  Moscow, 5,000 metres.
BYK BYM BYN BYO BYPS BYT BZC BZZ BZZ BZZ BZZ BZZ GCC GCC GCC GCC	Admiralty, Dover. Admiralty, Culver Cliff. Admiralty, Portland Bill. Admiralty, Rame Head. Admiralty, Cromarty. Post Office, Portpatrick. Admiralty, Stockton. Post Office (tem. closed), Grimsby. Admiralty, Inchkeith. Admiralty, Inchkeith. Admiralty, Inchkeith. Admiralty, Kingsnorth. Admiralty, Tynemouth. Admiralty, Tynemouth. Admiralty, Immingham. Admiralty, Immingham. Admiralty, Island, Post Office. Cullercoats Post Office. Cullercoats Post Office. —, Isle of Man. Civil Aviation, Castle Bromwich.	MHH MPO MUUV MZX Chief Fore BVZ BWW BYZ EAA FL GNV HBB HS ICD LCH LCM LP MSK	Marconi's Wireless Telegraph Co., Poole.  —, Poldhu.  Marconi's Wireless Telegraph Co., Carn.  Marconi's Wireless Telegraph Co., Towyn.  Marconi's Wireless Telegraph Co., Chelmsford.  Bign Stations  Admiralty, Carnsore.  Gibraltar, 4,800 metres.  Malta, 4,200 metres.  Malta, 4,200 metres.  Eiffel Tower, 2,600 metres.  R. H. Houghton, L.B. & S.C.Rly., Newhaven.  Berne, 3,400 metres.  Brussels, 1,680 metres.  Rome, 3,200 metres.  Christiania, 8,000 metres.  Stavanger, 12,000 metres.  Stavanger, 12,000 metres.  Königswusterhausen, 2,800 metres.
BYMN BYYNO BYYSTVAC BYYSTVAC BZZSTUBZZU BZZUWL GGCSXC GGED	Admiralty, Dover. Admiralty, Dover. Admiralty, Culver Cliff. Admiralty, Portland Bill. Admiralty, Rame Head. Admiralty, Cromarty. Post Office, Portpatrick. Admiralty, Stockton. Post Office (tem. closed), Grimsby. Admiralty, Inchkeith. Admiralty, Inchkeith. Admiralty, Kingsnorth. Admiralty, Tynemouth. Admiralty, Tynemouth. Admiralty, Immingham. Admiralty, Immingham. Admiralty, D. F. Station), Rhyl. Leafield Post Office. Cullercoats Post Office. Cullercoats Post Office. Caister-on-Sea Post Office. —, Isle of Man. Civil Aviation, Castle Bromwich. Civil Aviation (D.F.). Croydon, 900 metres.	MHH MPO MUU MUV MZX Chief Fore BVZ BWW BYZ EAA FL GNV HBB HS ICD LCH LCM LP MSK POZ	Marconi's Wireless Telegraph Co., Poole.  —, Poldhu.  Marconi's Wireless Telegraph Co., Carn.  Marconi's Wireless Telegraph Co., Towyn.  Marconi's Wireless Telegraph Co., Chelmsford.  Sign Stations  Admiralty, Carnsore.  Gibraltar, 4,800 metres.  Malta, 4,200 metres.  Madrid, 3,600 metres.  Eiffel Tower, 2,600 metres.  R. H. Houghton, L.B. & S.C.Rly., Newhaven.  Berne, 3,400 metres.  Brussels, 1,680 metres.  Rome, 3,200 metres.  Christiania, 8,000 metres.  Stavanger, 12,000 metres.  Stavanger, 12,000 metres.  Moscow, 5,000 metres.  Moscow, 5,000 metres.  Nauen, 12,600 metres.
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BYK BYYM BYYNO BYYST BYYVA BZZC BZZU BZZUW GGCCSX GGEC GGEG GGEG GEEG	Admiralty, Sheerness. Admiralty, Dover. Admiralty, Culver Cliff. Admiralty, Portland Bill. Admiralty, Rame Head. Admiralty, Cromarty. Post Office, Portpatrick. Admiralty, Stockton. Post Office (tem. closed), Grimsby. Admiralty, Inchkeith. Admiralty, Inchkeith. Admiralty, Kingsnorth. Admiralty, Tynemouth. Admiralty, Tynemouth. Admiralty, Tynemouth. Admiralty, Immingham. Admiralty, Immingham. Admiralty (D. F. Station), Rhyl. Leafield Post Office. Cullercoats Post Office. Cullercoats Post Office. Cullercoats Post Office. Civil Aviation, Castle Bromwich. Civil Aviation, Castle Bromwich. Civil Aviation, Lympne. Civil Aviation, Didsbury.	MHH MPO MUUV MUV MZX Chief Fore BVZ BWW BYZ EAA FL GNV HBB HS ICD LCH LCH LP MSK POZ PRG SFR	Marconi's Wireless Telegraph Co., Poole.  —, Poldhu.  Marconi's Wireless Telegraph Co., Carn.  Marconi's Wireless Telegraph Co., Towyn.  Marconi's Wireless Telegraph Co., Chelmsford.  Bign Stations  Admiralty, Carnsore.  Gibraltar, 4,800 metres.  Malta, 4,200 metres.  Malta, 4,200 metres.  Eiffel Tower, 2,600 metres.  E. H. Houghton, L.B. & S.C.Rly., Newhaven.  Berne, 3,400 metres.  Brussels, 1,680 metres.  Rome, 3,200 metres.  Christiania, 8,000 metres.  Stavanger, 12,000 metres.  Königswusterhausen, 2,800 metres.  Moscow, 5,000 metres.  Nauen, 12,600 metres.  Prague, 4,700 metres.  Radiola, 1,780 metres.  Radiola, 1,780 metres.
BYLM BYYNN BYYOP BYYTVA BEZZSTU BEZZU BEZZU BEZZU GCCSXC GEEG GEEG	Admiralty, Sheerness. Admiralty, Dover. Admiralty, Culver Cliff. Admiralty, Portland Bill. Admiralty, Rame Head. Admiralty, Cromarty. Post Office, Portpatrick. Admiralty, Stockton. Post Office (tem. closed), Grimsby. Admiralty, Inchkeith. Admiralty, Inchkeith. Admiralty, Kingsnorth. Admiralty, Tynemouth. Admiralty, Tynemouth. Admiralty, Tynemouth. Admiralty, Immingham. Admiralty, Immingham. Admiralty (D. F. Station), Rhyl. Leafield Post Office. Cullercoats Post Office. Cullercoats Post Office. Cullercoats Post Office. Civil Aviation, Castle Bromwich. Civil Aviation, Castle Bromwich. Civil Aviation, Lympne. Civil Aviation, Didsbury.	MHH MPO MUU MUV MZX Chief Fore BVZ BWW BYZ EAA FL GNV HBB HS ICD LCH LCM LCM LP MS K POZ PRG SFR WAR	Marconi's Wireless Telegraph Co., Poole.  —, Poldhu.  Marconi's Wireless Telegraph Co., Carn.  Marconi's Wireless Telegraph Co., Towyn.  Marconi's Wireless Telegraph Co., Chelmsford.  Sign Stations  Admiralty, Carnsore.  Gibraltar, 4,800 metres.  Malta, 4,200 metres.  Madrid, 3,600 metres.  Eiffel Tower, 2,600 metres.  R. H. Houghton, L.B. & S.C.Rly., Newhaven.  Berne, 3,400 metres.  Brussels, 1,680 metres.  Rome, 3,200 metres.  Christiania, 8,000 metres.  Stavanger, 12,000 metres.  Königswusterhausen, 2,800 metres.  Moscow, 5,000 metres.  Nauen, 12,600 metres.  Prague, 4,700 metres.  Radiola, 1,780 metres.  Radiola, 1,780 metres.  Warsaw, 2,500 metres.  Warsaw, 2,500 metres.
BYK BYYN BYYNO BYYST BYYV BEZZST BEZZT BEZZT BEZZ GCCSX GEED GEED GEEM GEEP	Admiralty, Dover. Admiralty, Culver Cliff. Admiralty, Culver Cliff. Admiralty, Portland Bill. Admiralty, Rame Head. Admiralty, Cromarty. Post Office, Portpatrick. Admiralty, Stockton. Post Office (tem. closed), Grimsby. Admiralty, Inchkeith. Admiralty, Inchkeith. Admiralty, Kingsnorth. Admiralty, Kingsnorth. Admiralty, Tynemouth. Admiralty, Immingham. Admiralty, Immingham. Admiralty, Inmingham. Cullercoats Post Office. Cullercoats Post Office. Cullercoats Post Office. Cullercoats Post Office. Civil Aviation, Castle Bromwich. Civil Aviation, Castle Bromwich. Civil Aviation, Didsbury. Civil Aviation, Didsbury. Civil Aviation (D.F.). Pulham.	MHH MPO MUU MUV MZX Chief Fore BVZ BWZ BYZ EAA FL GNV HBB HS ICD LCH LCM LP MSK POZ PRG SFR WGG	Marconi's Wireless Telegraph Co., Poole.  —, Poldhu.  Marconi's Wireless Telegraph Co., Carn.  Marconi's Wireless Telegraph Co., Towyn.  Marconi's Wireless Telegraph Co., Chelmsford.  Sign Stations  Admiralty, Carnsore.  Gibraltar, 4,800 metres.  Malta, 4,200 metres.  Madrid, 3,600 metres.  Eiffel Tower, 2,600 metres.  R. H. Houghton, L.B. & S.C.Rly., Newhaven.  Bernc, 3,400 metres.  Brussels, 1,680 metres.  Rome, 3,200 metres.  Christiania, 8,000 metres.  Stavanger, 12,000 metres.  Königswusterhausen, 2,800 metres.  Nauen, 12,600 metres.  Nauen, 12,600 metres.  Prague, 4,700 metres.  Radiola, 1,780 metres.  Warsaw, 2,500 metres.  Tuckerton, 16,100 metres.  Tuckerton, 16,100 metres.
BYYMNOPSTVAACSTUWLBBYYVABBZZSTUWLBBZZSTUWLGGGGEEGMPR	Admiralty, Dover. Admiralty, Dover. Admiralty, Culver Cliff. Admiralty, Portland Bill. Admiralty, Rame Head. Admiralty, Cromarty. Post Office, Portpatrick. Admiralty, Stockton. Post Office (tem. closed), Grimsby. Admiralty, Inchkeith. Admiralty, Inchkeith. Admiralty, Isignorth. Admiralty, Kingsnorth. Admiralty, Tynemouth. Admiralty, Immingham. Admiralty, Immingham. Admiralty, Isignorth. Cullercoats Post Office. Cullercoats Post Office. Cullercoats Post Office. Civil Aviation, Castle Bromwich. Civil Aviation, Castle Bromwich. Civil Aviation, Lympne. Civil Aviation, Lympne. Civil Aviation, Didsbury. Civil Aviation (D.F.). Pulham. Renfrew Aerodrome.	MHH MPO MUUV MUV MZX Chief Fore BVZ BWW BYZ EAA FL GNV HBB HS ICD LCM LP MS K PO C PR G SFR WG G WII	Marconi's Wireless Telegraph Co., Poole.  —, Poldhu.  Marconi's Wireless Telegraph Co., Carn.  Marconi's Wireless Telegraph Co., Towyn.  Marconi's Wireless Telegraph Co., Chelmsford.  Sign Stations  Admiralty, Carnsore.  Gibraltar, 4,800 metres.  Malta, 4,200 metres.  Madrid, 3,600 metres.  Eiffel Tower, 2,600 metres.  R. H. Houghton, L.B. & S.C.Rly., Newhaven.  Berne, 3,400 metres.  Brussels, 1,680 metres.  Rome, 3,200 metres.  Christiania, 8,000 metres.  Stavanger, 12,000 metres.  Königswusterhausen, 2,800 metres.  Moscow, 5,000 metres.  Nauen, 12,600 metres.  Prague, 4,700 metres.  Radiola, 1,780 metres.  Radiola, 1,780 metres.  Warsaw, 2,500 metres.  Warsaw, 2,500 metres.
BYYMNOPSTVACSTUWLCSXCBBYZZZUWLCSXCGGEEGGEERAGGGGGEEGGEERAGGGGGEEGGGEEGGGE	Admiralty, Sheerness. Admiralty, Dover. Admiralty, Culver Cliff. Admiralty, Portland Bill. Admiralty, Rame Head. Admiralty, Cromarty. Post Office, Portpatrick. Admiralty, Stockton. Post Office (tem. closed), Grimsby. Admiralty, Inchkeith. Admiralty, Inchkeith. Admiralty, Kingsnorth. Admiralty, Tynemouth. Admiralty, Tynemouth. Admiralty, Tynemouth. Admiralty, Tynemouth. Civil Aviation, F. Station), Rhyl. Leafield Post Office. Cullercoats Post Office. Caister-on-Sea Post Office. —, Isle of Man. Civil Aviation, Castle Bromwich. Civil Aviation, Castle Bromwich. Civil Aviation, Didsbury. Civil Aviation, Didsbury. Civil Aviation, Didsbury. Civil Aviation (D.F.). Pulham. Renfrew Aerodrome. Air Ministry, London.	MHH MPO MUUV MUV MZX Chief Fore BVZ BWW BYZ EAA FL GNV HBB HS ICD LCM LP MS K PO C PR G SFR WG G WII	Marconi's Wireless Telegraph Co., Poole.  —, Poldhu.  Marconi's Wireless Telegraph Co., Carn.  Marconi's Wireless Telegraph Co., Towyn.  Marconi's Wireless Telegraph Co., Chelmsford.  Sign Stations  Admiralty, Carnsore.  Gibraltar, 4,800 metres.  Malta, 4,200 metres.  Madrid, 3,600 metres.  Eiffel Tower, 2,600 metres.  R. H. Houghton, L.B. & S.C.Rly., Newhaven.  Bernc, 3,400 metres.  Brussels, 1,680 metres.  Rome, 3,200 metres.  Christiania, 8,000 metres.  Stavanger, 12,000 metres.  Königswusterhausen, 2,800 metres.  Nauen, 12,600 metres.  Nauen, 12,600 metres.  Prague, 4,700 metres.  Radiola, 1,780 metres.  Warsaw, 2,500 metres.  Tuckerton, 16,100 metres.  Tuckerton, 16,100 metres.
BYYM BYYNO BYYSTVA BEZZZUWL BEZZZUWL GCCSXC GEEGGEEG GEERA GFFC	Admiralty, Dover. Admiralty, Dover. Admiralty, Portland Bill. Admiralty, Rame Head. Admiralty, Cromarty. Post Office, Portpatrick. Admiralty, Stockton. Post Office (tem. closed), Grimsby. Admiralty, Inchkeith. Admiralty, Inchkeith. Admiralty, Kingsnorth. Admiralty, Kingsnorth. Admiralty, Tynemouth. Admiralty, Tynemouth. Admiralty, Immingham. Admiralty, Immingham. Civil Aviation (D. F. Station), Rhyl. Leafield Post Office. Cullercoats Post Office. Cullercoats Post Office. Culler of Man. Civil Aviation, Castle Bromwich. Civil Aviation, C.F.). Croydon, 900 metres. Civil Aviation, Didsbury. Civil Aviation, Didsbury. Civil Aviation (D.F.). Pulham. Renfrew Aerodrome. Air Ministry, London. Air Ministry, Cranwell.	MHH MPO MUUV MUV MZX Chief Fore BVZ BWW BYZ EAA FL GNV HBB HS ICD LCM LP MS K PO C PR G SFR WG G WII	Marconi's Wireless Telegraph Co., Poole.  —, Poldhu.  Marconi's Wireless Telegraph Co., Carn.  Marconi's Wireless Telegraph Co., Towyn.  Marconi's Wireless Telegraph Co., Chelmsford.  Bign Stations  Admiralty, Carnsore.  Gibraltar, 4,800 metres.  Malta, 4,200 metres.  Malta, 4,200 metres.  Eiffel Tower, 2,600 metres.  E. H. Houghton, L.B. & S.C.Rly., Newhaven.  Berne, 3,400 metres.  Brussels, 1,680 metres.  Christiania, 8,000 metres.  Christiania, 8,000 metres.  Königswusterhausen, 2,800 metres.  Königswusterhausen, 2,800 metres.  Nauen, 12,600 metres.  Prague, 4,700 metres.  Radiola, 1,780 metres.  Radiola, 1,780 metres.  Warsaw, 2,500 metres.  New Brunswick, 13,600 metres.  New Brunswick, 13,600 metres.  Long Island, 16,465 metres.
BYYMNOPSTVACSTUWLCSXCBBYZZZUWLCSXCGGEEGGEERAGGGGGEEGGEERAGGGGGEEGGGEERA	Admiralty, Sheerness. Admiralty, Dover. Admiralty, Culver Cliff. Admiralty, Portland Bill. Admiralty, Rame Head. Admiralty, Cromarty. Post Office, Portpatrick. Admiralty, Stockton. Post Office (tem. closed), Grimsby. Admiralty, Inchkeith. Admiralty, Inchkeith. Admiralty, Kingsnorth. Admiralty, Tynemouth. Admiralty, Tynemouth. Admiralty, Tynemouth. Admiralty, Tynemouth. Civil Aviation, F. Station), Rhyl. Leafield Post Office. Cullercoats Post Office. Caister-on-Sea Post Office. —, Isle of Man. Civil Aviation, Castle Bromwich. Civil Aviation, Castle Bromwich. Civil Aviation, Didsbury. Civil Aviation, Didsbury. Civil Aviation, Didsbury. Civil Aviation (D.F.). Pulham. Renfrew Aerodrome. Air Ministry, London.	MHH MPO MUU MUV MZX Chief Fore BVZ BWZ BYZ EAA FL GNV HBB HS ICD LCH LCM LP MSK POZ PRG SFR WGG	Marconi's Wireless Telegraph Co., Poole.  —, Poldhu.  Marconi's Wireless Telegraph Co., Carn.  Marconi's Wireless Telegraph Co., Towyn.  Marconi's Wireless Telegraph Co., Chelmsford.  Bign Stations  Admiralty, Carnsore.  Gibraltar, 4,800 metres.  Malta, 4,200 metres.  Malta, 4,200 metres.  Eiffel Tower, 2,600 metres.  E. H. Houghton, L.B. & S.C.Rly., Newhaven.  Berne, 3,400 metres.  Brussels, 1,680 metres.  Christiania, 8,000 metres.  Christiania, 8,000 metres.  Königswusterhausen, 2,800 metres.  Königswusterhausen, 2,800 metres.  Nauen, 12,600 metres.  Nauen, 12,600 metres.  Prague, 4,700 metres.  Radiola, 1,780 metres.  Warsaw, 2,500 metres.  Trickerton, 16,100 metres.  New Brunswick, 13,600 metres.  New Brunswick, 13,600 metres.



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HE mere announcement of the Wuncell Dull Emitter Valve produced a flood of orders—and well it might, for there is no other Dull Emitter which has half its advantages.

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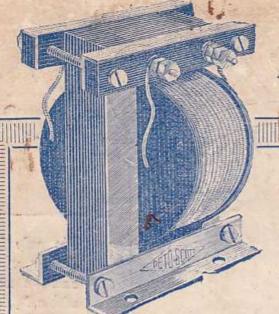
screw provided and re-connect your accumulator to give 2 volts. Its cells connected in parallel will treble its life between charges.

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