

POTENTIAL DIVIDER.



WatMel
Potential
Divider.

WIRE Wound on Bakelite
Former, 10,000 ohms to
carry 75 m.a. tappings
every 1,000 ohms, giving ap-
proximately 20 volt per step when
voltage is 200. PRICE - 7/-
20,000 ohms to carry 40 m.a. tap-
pings 2,000 ohms - 8/-

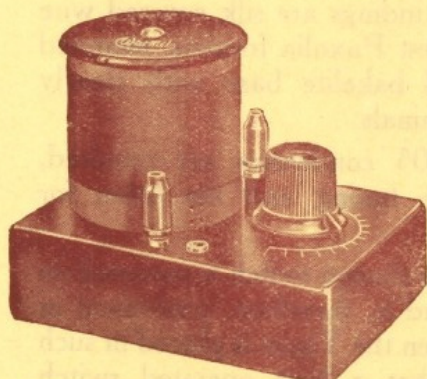
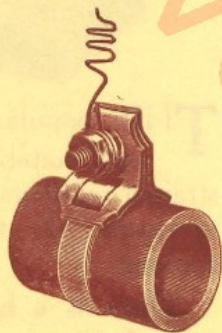
WatMel Imperial Earthing Clip.

WHERE a water main is
handy to your wireless
receiver you cannot do
better for an earth connection
than to use one of these Earthing
Clips, having first scraped
the pipe clean.

A tight and electrically sound
earth contact, so essential to
good reception, is assured when
using one of these Clips. No
soldering required.

PRICE - 6d.

Carded for Trade. 1 Dozen on a Card.



**Imperial
Wavetrap.**

THIS Wave-
trap is recog-
nised as being
the most effi-
cient Wavetrap
yet produced,
and can be

connected either in series with the aerial or in paral-
l with the receiver, with four tappings to the inductance,
so that a wide variation of control is possible.

Supplied complete with two connecting plugs.

For 200 to 600 metres, 8/6
For 1,000 to 2,000 metres, 10/6

WatMel

IMPERIAL



RADIO

**Tuning Units,
Potentiometers,
Wire Wound
Resistances.**

**H.F. Chokes,
Pick-Up Carriers,
Screening Boxes,
Etc. Etc.**

WATMEL WIRELESS CO., LTD.,
High Street, - Edgware, - Middx.
Telephone: EDGWARE 0323.

TUNING UNITS.

Universal Dual Wave Tuner

Type 31.



THIS Tuner has been specially designed to cope with the necessity for selectivity in districts near the new large twin broadcasting stations, and will effectively separate the two programmes on a straight three valve receiver.

This Tuner is adaptable to any type of receiver and only requires a .0005 condenser for tuning and a .00015 for reaction. This Tuner is very suitable for D.C. Main operating receivers, the aerial coupling coil being isolated.

The long and short wave switch is contained in the base and has sliding self-cleaning contacts.

Terminals are marked with indication letters of the various connections to the circuit, i.e.,

AE Aërial.

E Earth.

P Anode of the detector valve.

R Fixed plates of reaction condenser.

F Filament negative.

(C.T. Centre tap, only required for special purposes).

G Fixed plates of .0005 tuning condenser and grid condenser.

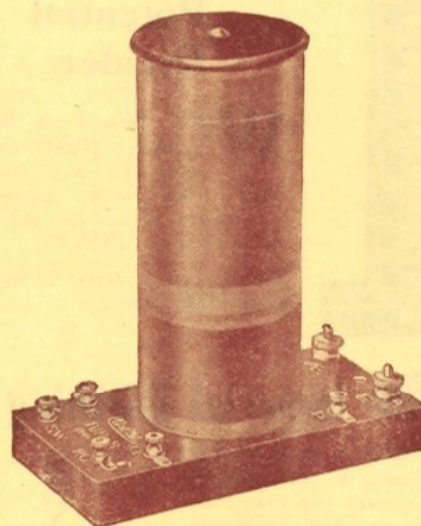
This Tuner has received the finest press reports for high selectivity and efficiency.

PRICE - - 17/6

TUNING UNITS.

Two Range Tuner

Type 29.



THIS popular Tuner is very efficient and suitable for aerial tuning in straight receivers in districts from 15 miles upwards of the main broadcasting stations.

There is a high degree of selectivity and efficiency.

All the windings are silk covered wire wound on best Paxolin formers, mounted on moulded bakelite base with clearly marked terminals.

Two .0005 condensers are required, one for the tuning and the other for reaction.

The wave-change switch is mounted on the panel and is, therefore, convenient in receivers when the Tuner is placed in such a position that a base operated switch would not be suitable.

PRICE - - 12/6

(Complete with Switch.)

SCREENED TUNING UNITS.

Screened Coils.

THIS range of Coils has been specially developed in view of modern broadcasting conditions, where a high degree of selectivity is required it is necessary to screen the Coils to prevent direct pick-up or interaction between the various units.

They are designed to such a size as to be most efficient for screening and also that they are compact and the width being equal to a .0005 condenser so as to keep wiring compact and short.

The wave-change switch is embodied in the base of the coil.

All contacts are gold silver alloy which does not oxidise, therefore resulting in perfect low resistance contacts and reliable switching.

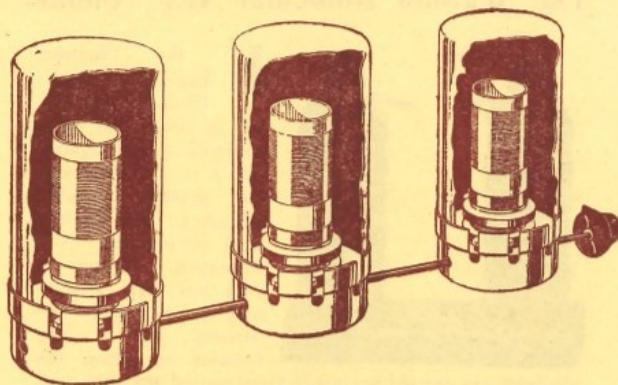
The medium wave winding is carried on a high grade paxolin tube and all windings are carried out with double silk covered wire, this being the most efficient.

The screens are aluminium with a spring contact between top and bottom.

When the coils are supplied for ganging and mounted on bases they are carefully matched, the system of matching being by means of an oscillator and valve voltmeter. This ensures true matching under working conditions.

SCREENED TUNING UNITS.

SCREENED COILS—continued.



TYPES S.S.6.—A.C.
S.S.5.—Battery.
S.S.5.—D.C.

These are the specified coils for the "Wireless World," "Super Selective Six" A.C., "Super Selective Five" Battery, and "Super Selective Five" D.C.

The complete set of three Tuners, comprised of the Aërial and Secondary Band Pass Coils and Oscillator Coil mounted on a metal base with copper earthing strip, ganged together with wave-change switch and correctly matched,

PRICE - - 27/6

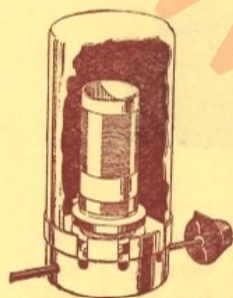
Slab Coil.



Slab Coil for use with the above Tuners,

PRICE - - 3/-

Screened Coils



THESE Tuners are similar in design to the "Super Selective Six" and "Super Selective Five," excepting that the windings are arranged for simple circuits.

Type S.A.1. Screened Aërial Tuner with aperiodic aërial tapping for high selectivity. The idea of the coil being screened

is that no direct pick-up is obtained. This Tuner is suitable for straight receivers, and is tuned with a .0005 condenser and .00015 for reaction. This Tuner can be adapted to any type of receiver.

PRICE - 8/6

Type S.A.2. Similar to the above but for use where reaction is not to be used.

PRICE - 8/6

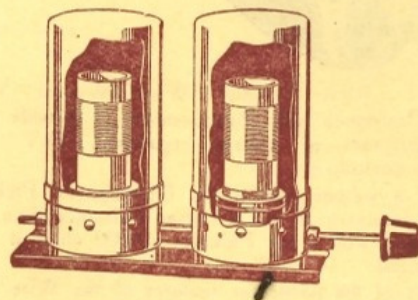
Type S.S.3. H.F. Tuner with reaction winding.

PRICE - 8/6

Type S.S.4. H.F. Tuner without reaction winding.

PRICE - 8/6

Band Pass Aerial Tuning Units.



THIS type of Band Pass Tuner has been developed on new lines, the aërial is aperiodic, coupled to the first Tuner by choke feed, and a second Band Pass inductively coupled to the first. The two Tuners being carefully matched for ganged tuning and mounted on a metal base with copper earthing strip.

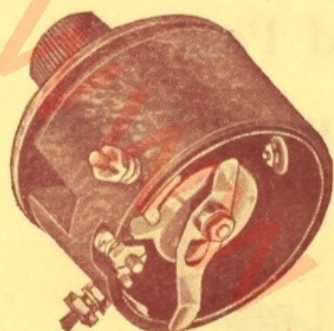
The Unit is supplied complete with a special coil for choke coupling to aërial feed. Complete Set, 18/-

Type B.P.A.1.

Type B.P.A.S.2. Same as above but with extra H.F. Tuner, with reaction winding suitable for screened grid H.F. receivers. Complete with choke coupling unit, 28/6

WIRE WOUND POTENIOMETERS.

WIRE POWER RESISTANCES.



Wire Wound Potentiometer.

VARIABLE RESISTANCES.

THE latest Watmel Wire Wound Variable Resistance and Potentiometer is suitable for all purposes of voltage regulation, H.T. supply, volume control, etc.

As a volume control for Gramophone Pick-ups it is not necessary to use a higher resistance than 50,000 ohms, and with many Pick-ups 25,000 ohms is all that is required.

One of the particular features of the Wire Wound Resistances for this purpose is, that owing to its high inductance value the high note response is preserved and a smooth silent control obtained.

This new Watmel Potentiometer is, without any doubt, the finest instrument of its kind, and will give long and reliable service owing to the following points of its construction:—

1. A smooth wiping contact.
2. Large self-cleaning back contact.
3. Resistance wire wound on special non-shrinkable former.
4. Engraved front plate.
5. Pointer control knob.
6. Stop plates.
7. Spindle rotating in brass bush.
8. Wiping contact.
9. Bakelite case, which protects the winding from mechanical damage.
10. One hole fixing.

Standard Stock Values.

1,000 Ohms.	25,000 Ohms.
5,000 "	30,000 "
10,000 "	40,000 "
20,000 "	50,000 "

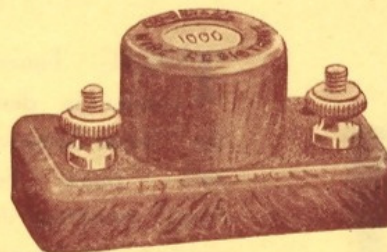
PRICE - - - **5/6**

Square-Law Volume Control.

TO meet the requirements for volume control which will have an equal variation of volume for the rotation of the knob, the Square-Law Potentiometer is designed with a taper winding. The general construction otherwise being as standard Potentiometer.

PRICE - - - **6/6**

Wire Wound Power Resistance



THE new Wire Wound Resistances have been designed for use in circuits requiring a non-inductive winding, such as in free grid biasing, potential dividing, voltage regulation, decoupling resistance.

The resistance is unique in that it is permanently fixed, thus obviating any fear of corrosion between metal contacts. Mounted in attractive moulded Bakelite case, very compact, being approximately size as illustration, with values clearly inset on the top of Former, and finished with nickel terminals.

It should be noted that due to the air cooling method of construction and size of wire used, the temperature rise is less than 10%. The resistances are guaranteed within 5% of their rated value.

The new Wire Wound Resistance, therefore, is a decided advance on any similar component yet placed on the market.

Supplied in any value additional to those listed.

A higher current rating can be supplied at slightly additional cost.

Resistance Value.	Carrying Capacity.	Price.
		s. d.
100 to 600 ohms,	50 milliamps	1 6
1,000 to 2,000 "	30 "	2 0
3,000 to 5,000 "	20 "	2 6
6,000 to 10,000 "	16 "	2 9
15,000 to 20,000 "	11 "	3 0
25,000 ohms	11 "	3 6
50,000 "	8 "	3 6
100,000 "	6 "	4 0

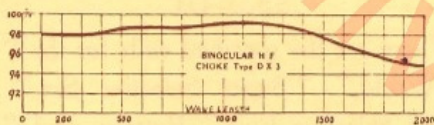
H.F. CHOKES.

The Watmel Binocular H.F. Choke.



IN the Watmel Binocular H.F. Choke, every detail in design has been carefully investigated with a view to obtaining the greatest possible efficiency. The winding is of the inverted "V" formation, having a very low self capacity and an extremely restricted field. The formers on which the

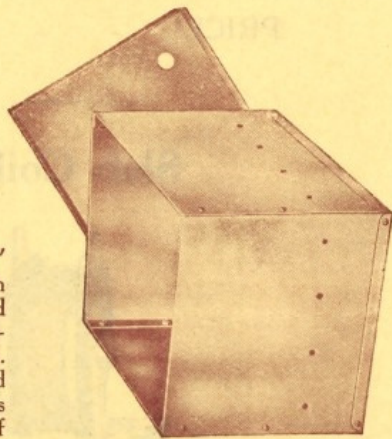
windings are carried are made from special material, and the connecting terminals are mounted at the top of the former as per illustration.



The two formers are securely fixed to a moulded bakelite base, and the overall size of the Choke is 2" long by $\frac{3}{4}$ " wide by $2\frac{1}{8}$ " high. It is, therefore, very compact and can be fitted comfortably in any receiver.

Type D.X.3 is a very highly efficient Choke and should be used in all cases where it is necessary to obtain the maximum choking effect, such as in choke feed H.F. intervalve coupling, or following H.F. amplification: Inductance, 200,000 microhenries; Self Capacity, 1.6 micromicrofarads; D.C. Resistance, 1,400 ohms. 4/-

Universal Standard Aluminium Screening Box.



SIZE $6\frac{1}{2}$ " x $6\frac{1}{2}$ " x 6", fitted with wooden baseboard and supplied complete with screws. This is the standard Screening Box as specified in many of the popular receivers.

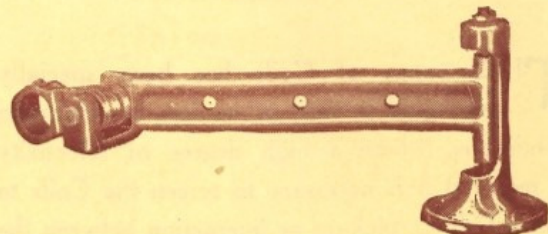
PRICE - - - 4/6

Type as above but size $6\frac{1}{2}$ " x $4\frac{1}{2}$ " x 6"

Special type with valve screening - - -
PRICE - - - 5/-

PICK-UP CARRIER.

The Imperial Pick-Up Carrier



THIS is one of our new lines and one which fills a much felt want.

Very few gramophone tone arms of the ordinary type possess that rigidity and accuracy of alignment demanded by the use of electrical pick-ups.

A moment's reflection will show that it is very necessary when amplifying the volume of gramophone music to guard against amplifying the volume of the needle scratch also.

The Watmel Pick-up Carrier, on account of the free yet rigid movement of its joints and also the fact that, by use of the tracking template supplied, it can be set affixed with great accuracy, confers the following definite advantages:—

1.—It reduces the wear and tear on the records, partly because of correct tracking and partly because of the free ball and socket movement.

2.—It enables the Pick-up to obtain from the record the best possible reproductions.

3.—It reduces needle scratch to a minimum because the needle is correctly in track with the record throughout the entire playing.

It should be noted that there is no need to remove the existing arm from the gramophone, the Pick-up Carrier can usually be fitted in another position and swung aside when not in use.

Holes drilled in the arm of the Carrier enable the Pick-up flex to be threaded in and out so that it does not drag on the arm.

With each Carrier we supply a template so that the Carrier may be fixed to the gramophone with dead accuracy for tracking purposes.

Should your Pick-up not be of standard pattern we can supply a small adaptor, price on application. A further point of note is that the movable joint which carries the Pick-up can be reversed to suit Pick-ups in which the plane of the Pick-up is at right-angles to the record track.

The successful reception which has been accorded to this Carrier makes it well worth your investigation.

PRICE - - - 7/6