

tags near the surface of the board is a great convenience when connecting up.

The switch moves with a snap action, the spindle being supported by substantial brass bearing plates. The metal parts are nickel-plated, and the operating knob polished and engraved. This new component can be safely employed in practically any circuit system where it is desired to produce changes in the circuit arrangement by means of switching. It is supplied as a single or two-pole two-position switch, and can probably be extended to include any number of contacts according to requirements.

A SHORT-WAVE RECEIVER.

There are comparatively few short-wave receiving sets on the market, and although amateurs interested in short-wave reception usually construct sets for themselves, there is a considerable demand for a made-up short-wave set.

A complete two-valve short-wave receiver is manufactured by Stratton & Co., Ltd., Balmoral Works, Bromsgrove Street, Birmingham. The circuit arrangement employed is that most universally adopted by amateurs and comprises an aerial coil, inductively coupled to a tuned closed circuit with a variable capacity reaction.

To cover a wide range of wavelengths interchangeable plug-in coils must be adopted, and the simple form of coil mount which is fitted is a feature of the set which will recommend it to the short-wave enthusiasts. It comprises a series of sockets arranged along an ebonite strip, some of which are connected across in order to accommodate the pin con-

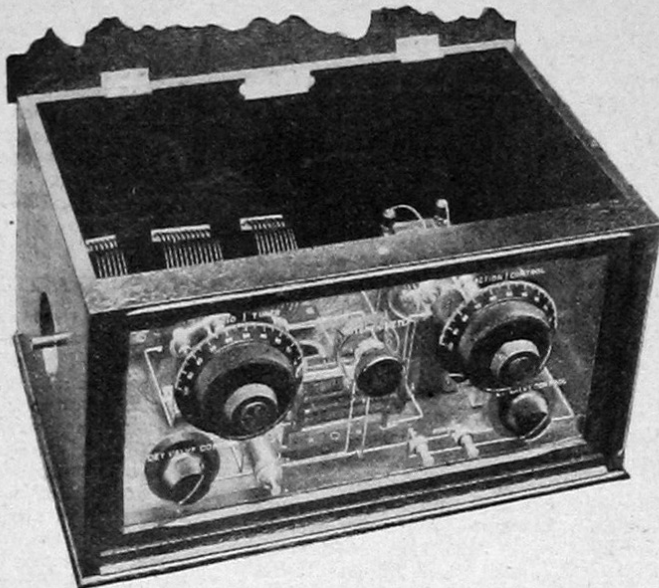
nectors of coils differing in length. The coils are of No. 16 enamelled wire rigidly supported between ebonite strips, and although only a minimum of solid dielectric material is used in the construction the coils are perfectly durable and robust. Coils and coil holder are obtainable if required as separate components. The high-frequency choke coil connected in the plate circuit of the detector valve is also of special construction, and as well as being provided with a two-pin

mount, is an air-spaced winding carried on ebonite rods.

An unusual and attractive feature is that of employing a glass panel for carrying the controls, which, as well as displaying a well-finished interior, permits of the tuning coils being viewed so that the tuning range can be estimated.

In addition to the reaction condenser a control of self-oscillation is provided by a potentiometer connected to the grid leak. If the size of the reaction coil is not suitably chosen some degree of overlap may occur when adjusting the reaction condenser close to the oscillating point, and the potentiometer will be found useful for providing a critical adjustment under such circumstances, though a slight falling off in signal strength results when the valve becomes an anode band detector by being negatively biased.

This receiver is suitable for the reception of amateur transmissions, and on test both 2XAF and KDKA were readily tuned in at a satisfactory telephone strength, signals being easily separated from the heterodyned carrier wave.



Eddystone short-wave receiver. Plug-in coils provide a wide wave range. Reaction is controlled by potentiometer and variable condenser.

"Radio for the Million."

"Radio for the Million," Vol. 1, No. 2, issued by the Mullard Wireless Service Co., Ltd., maintains the standard set by the first issue. Constructional details are given in connection with the "Drake" P.M. and "Columbus" P.M. receiving sets, while an illustrated article deals with the Mullard P.M. speaker and its abilities in the reproduction of instrumental and vocal music. We understand that copies may be obtained free of charge on application to the Editor, 63, Lincoln's Inn Fields, London, E.C., or by filling in a coupon obtainable from local dealers.

B.B.C. Ideal Receivers.

We understand from the General Electric Co., Ltd., of Magnet House, Kingsway, W.C.2, that the valves used in the B.B.C. Ideal receiving sets on show at the *Daily Mail* Ideal Home Exhibition were the *Osram* types DE5, DE5a, DE5b, and LS5.

New Address.

A rapid increase in business has led Messrs. The Electron Co., Ltd., manufacturers of the Six-Sixty valves, to seek fresh fields and pastures new. Their new address is 122-124, Charing Cross Road, London, W.C.2.

TRADE NOTES.

B.T.H. Constructors' Sets.

Messrs. The British Thomson-Houston Co., Ltd., of Coventry, have produced an attractive booklet giving complete details for the home construction of "Resistor" B.T.H. constructors' sets.

The building of each set is carefully described with the aid of diagrams and photographs. The reader is also instructed in the assembly of the "Resistor" amplifier intended for use with crystal receivers.

Holland and Java Telephony.

Wireless telephonic communication has been established for the first time between Messrs. Philips' Laboratories, Eindhoven, Holland, and Bandoeng, Java, Dutch East Indies. Messrs. Philips Lamps, Ltd., 145, Charing Cross Road, London, W.C.2, state that a telegram was received in reply from the Dutch East Indian Government congratulating Messrs. Philips on their splendid transmission, which was carried out on a wavelength of about 30 metres.

London Guide for Motor Owners.

A booklet which should prove of considerable service and interest to private motor owners in the London district has been issued by the Hart Accumulator Co., Ltd., of Marshgate Lane, London, E.15. It is known as the "Nearest Garage Guide" (London district). The booklet provides useful information regarding railway stations, theatres, hotels, etc., and an ingenious system of classification provides instant information as to the garages nearest to the various places of importance and interest.

"The Brown Budget."

The Brown Budget for March includes an interesting contribution entitled "Bringing the Loud-speaker to the Masses," and describes the "Brown" Ideal wireless set, which consists of a combined amplifier and crystal receiver. The issue is of greater interest to the wireless dealer than to the amateur.

Loewe Valves.—A Correction.

In our issue of March 9th last it was stated that the London agency for Loewe valves had been secured by Mr. J. Dorn. We now learn from the manufacturers, Messrs. Loewe-Radio G.m.b.H., Wiesenweg 10, Steglitz, Berlin, that the statement was incorrect, and we regret the error.