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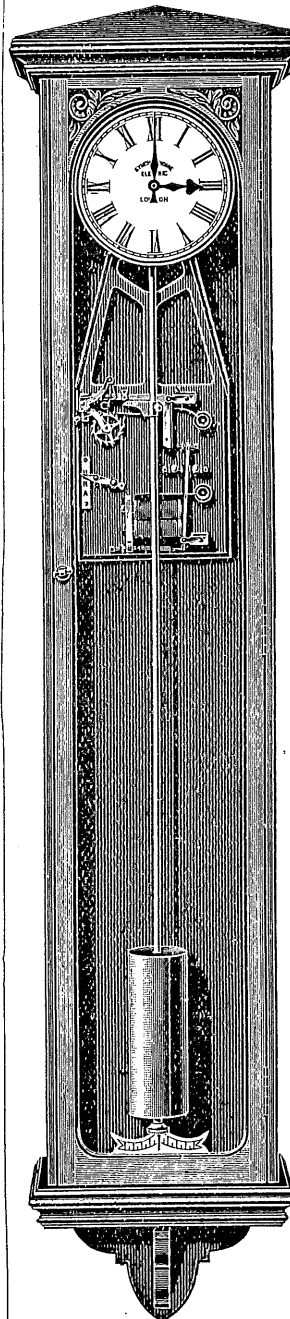


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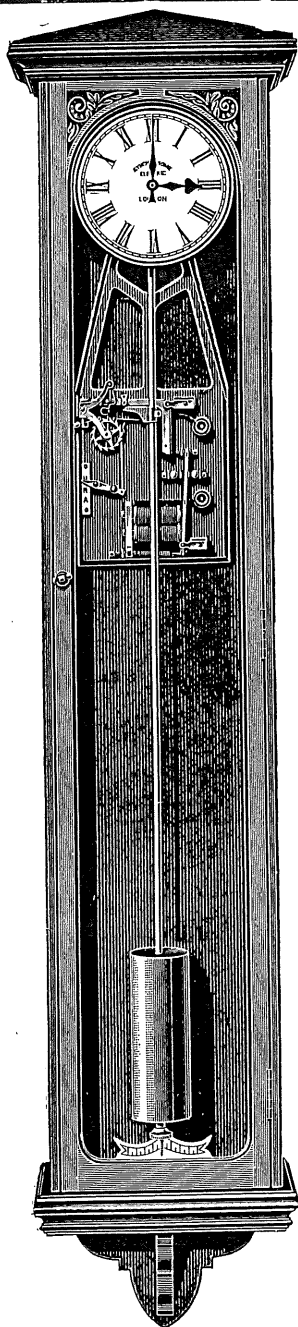
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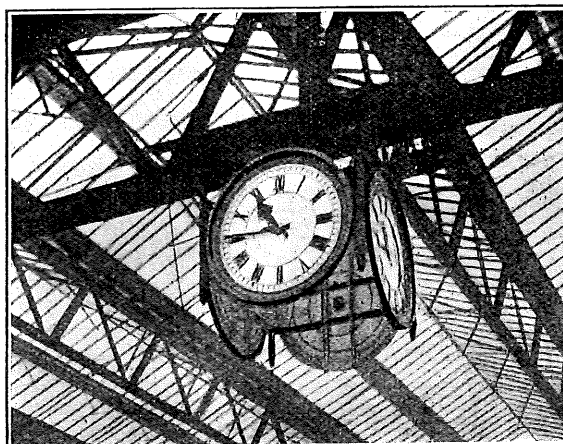
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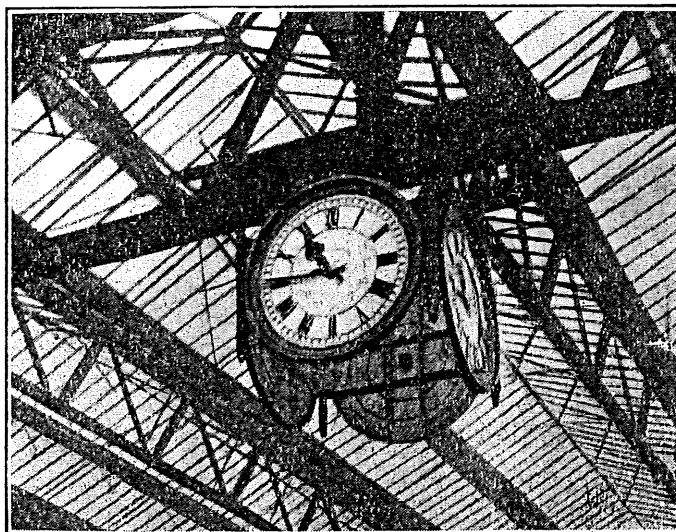
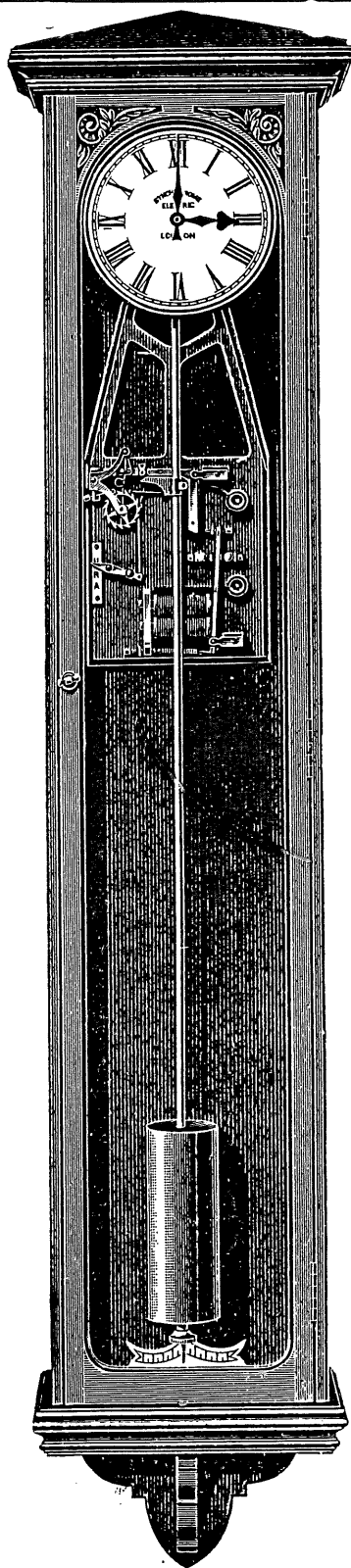
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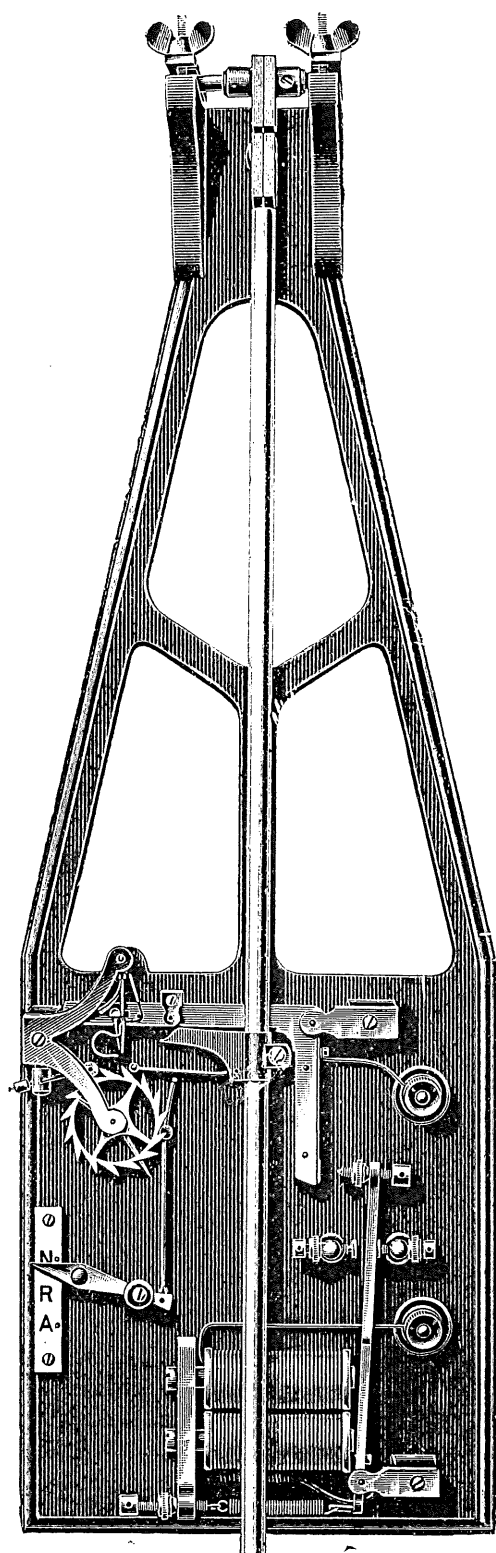
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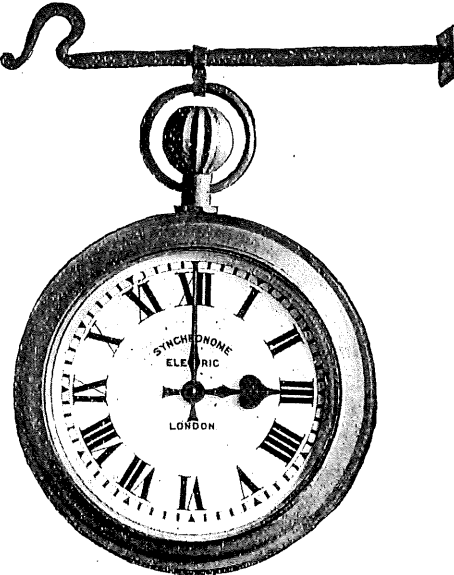
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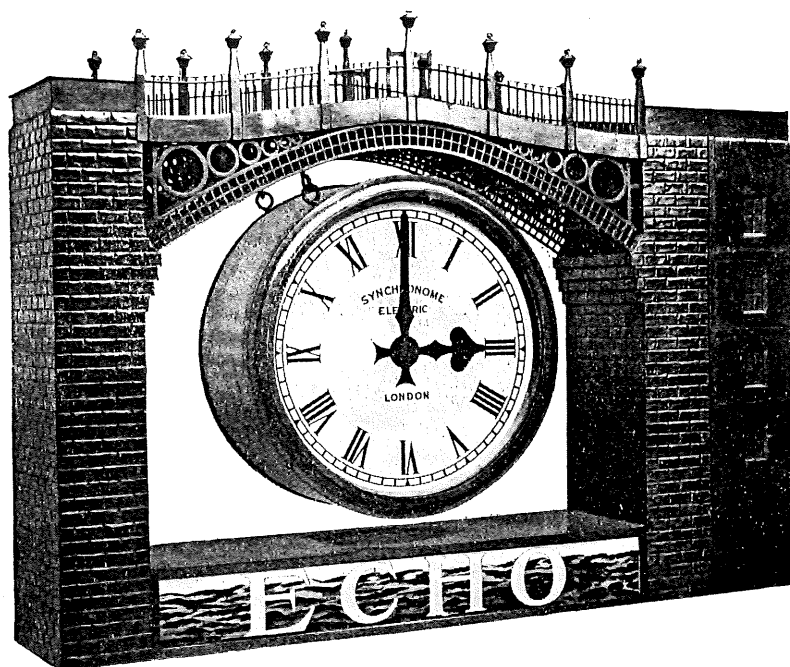
Sunderland's New Public Clock.

THERE has been noticeable of late an increasing popularity in public double-faced bracket clocks.

There can be nothing better calculated to focus attention upon a particular building, adding individuality and distinction to premises which

ject of the illustration, may be taken as an instance.

The proprietors of the local newspaper, the *Sunderland Daily Echo*, desired to commemorate the famous bridge over the River Wear, so they commissioned the Synchronome Co., Ltd., to build a model of it, his-



DOUBLE FACED BRACKET CLOCK, set in model of Sunderland's famous Bridge.

would otherwise be lost in a street of uniformity.

That fact has always been recognised, but the expense of a turret clock and the inconveniences involved in accommodating its works and weight chute rather took the gilt off the gingerbread. Then the advent of wireless time signals and the bringing of the chimes of "Big Ben" into every household have raised the standard of punctuality in the community generally. As a result, it has made people a little shy of voluntarily undertaking to give time to a more critical public who will make the clock a target for abuse if they find it wrong.

Revised Interest in Turret Clocks.

These two causes had given a definite set-back to the turret clock trade, and some clear evidences of its recent revival, brought about by a direct attack upon these disabilities, are, therefore, welcome. The modern method of electrically-driven dials cuts at the root of these handicaps.

The double-faced illuminated bracket clock at Sunderland, the sub-

ject of the illustration, may be taken as an instance. The proprietors of the local newspaper, the *Sunderland Daily Echo*, desired to commemorate the famous bridge over the River Wear, so they commissioned the Synchronome Co., Ltd., to build a model of it, his-

torically accurate, and have it set up on the front of their offices in Bridge Street, in the form of a girder, from which is suspended a double-faced illuminated drum. Their premises being equipped with a service of uniform and accurate time on the synchronome system, it was a simple matter to provide these dials with electrical impulse dial movements so small that they are concealed by the bosses of the hands and throw no shadow, yet sufficiently powerful to drive the hands through all weathers.

Thus the bugbear of works and weekly winding is dispensed with, and accuracy of timekeeping is secured by the same principles as are used to determine time itself at Greenwich Observatory. The model has been finely executed in bronze and opal, the coloured panel at the bottom, representing the river, being specially effective both by night and day. It shows the bracings between the arch of Rowland Burdon's structure, built in 1796, and the roadway, and which were removed when the bridge was reconstructed by Robert Stephenson in 1856.

Visitors' Day at the Royal Observatory.

SATURDAY, June 2nd, was the day set apart this year by the President of the Royal Society for the inspection by visitors of the wonders and scientific intricacies of the Royal Observatory at Greenwich. It is the one day in the year looked forward to by representatives of various scientific societies, for an insight into the mysteries of this home of astronomy.

The intimate bearing which astronomy has upon time and time-keeping makes a visit to Greenwich of especial interest to horologists, and this science was well represented on Saturday.

In the famous octagon room is Harrison's No. 1, while No. 4 is displayed with Kendall's copy in another chamber. The history of chronometry is exemplified in this room by numerous chronometers and deck watches. In the clock room, a very jealously guarded apartment, are all the famous precision clocks.

A casual look round gives a vivid impression of the variety of ideas expressed in the timekeepers seen. The large clock in the gateway is electrical, while a regulator by George Graham is doing service in the altazimuth room.

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A long-sought-for necessity. It should prove very popular.—C. STROUD, 3, Stanley Parade, Ealing Road, Wembley.

Your paper fills that "aching void" which was so common amongst other trade journals. I find it most instructive, and look forward to it for hints and information.—W. A. ANTON,

I think that the "P.W.C.M." is just the kind of publication that has been required for years. I am sure that it will be a great need both to the beginner and the more advanced worker of the trade. I wish you every success.—J. H. AIREY, 76a, Penny Street, Manchester.

It is the book we have been in need of for years, and I sincerely hope you will continue to give us articles on everyday workshop repairs, as you know each firm has different methods for doing repairs, and it is never too late to learn.—S. ADAMS, Upland Cottage, Reading Road, Basingstoke.

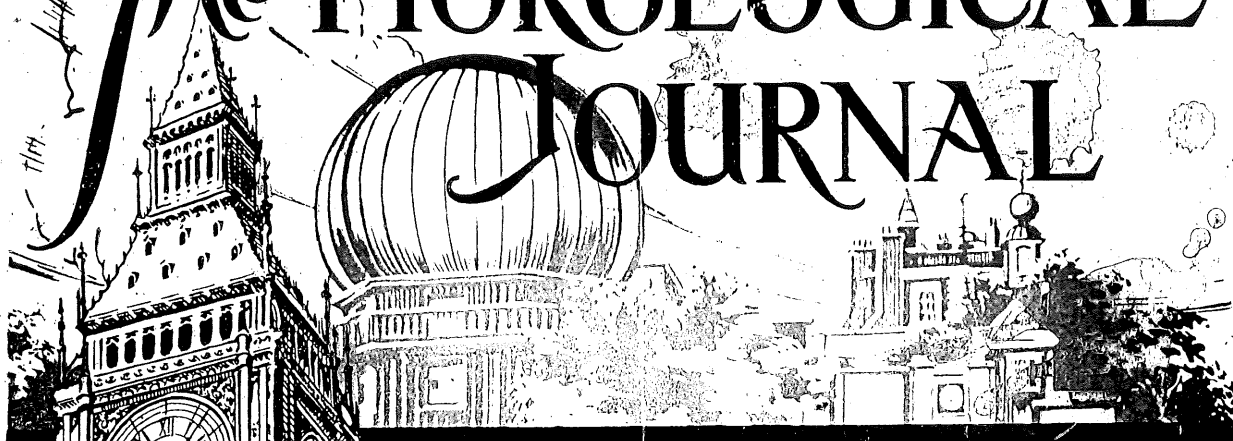
That it is an excellent production, supplies a long-felt want.—W. H. STEVENSON, Brunswick Road, Buckley, near Chester.

That it has filled a long-felt want for men of all classes engaged in the watch and clock business.—F. McLOUGHLIN, William Street, Tullamore, Ireland.

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OCTOBER 1929.

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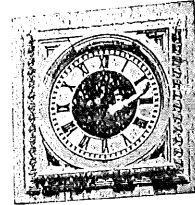
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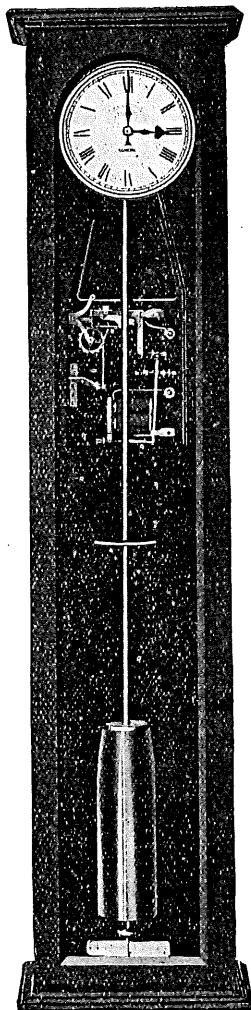
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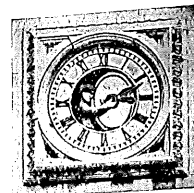
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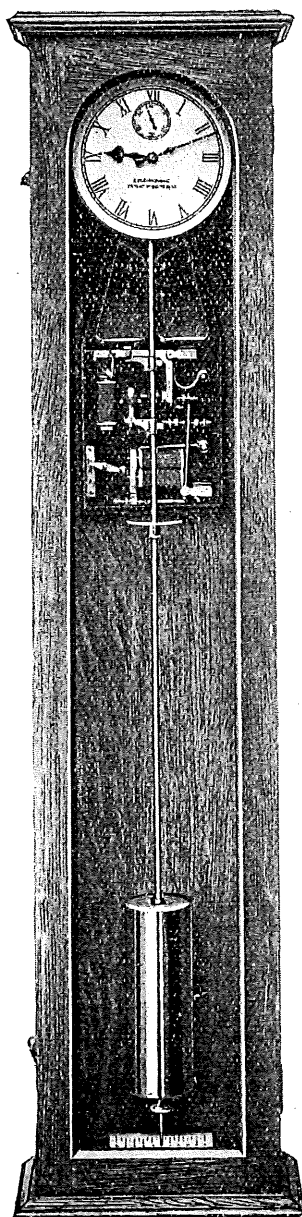
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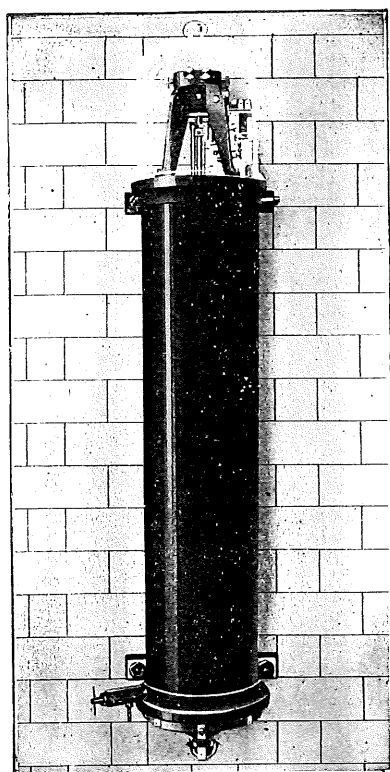
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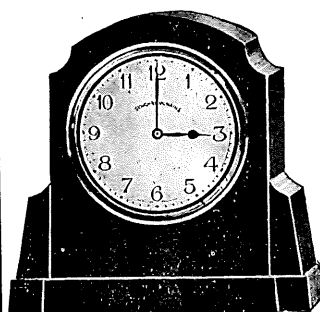
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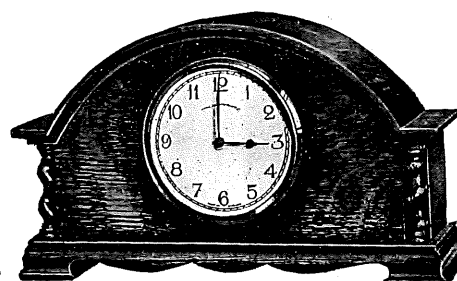
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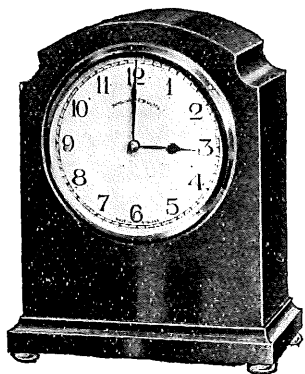
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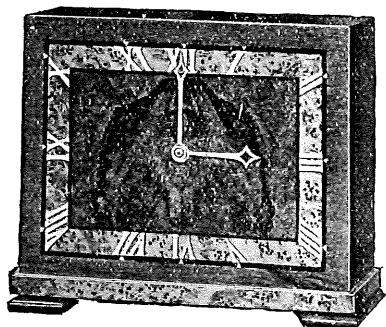
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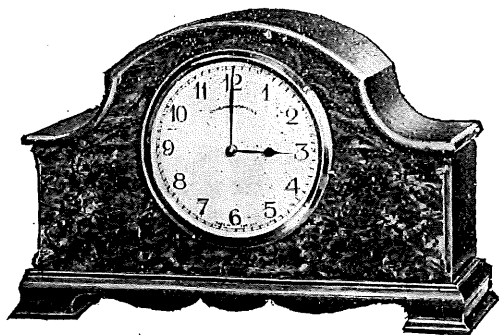
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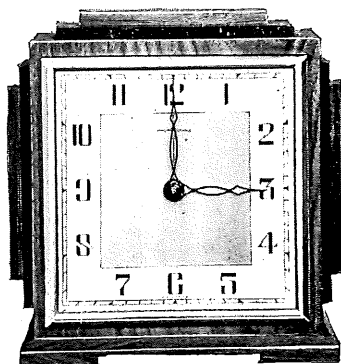
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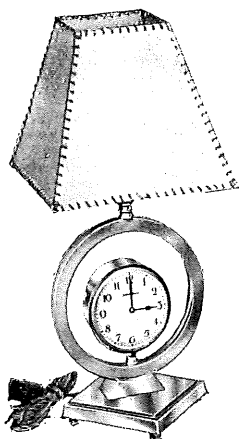
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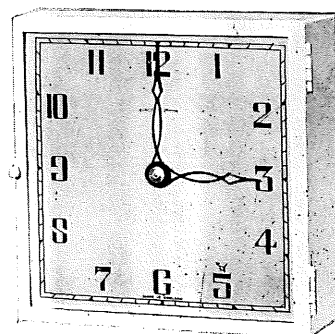
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fitted with 3½ inch dial as
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The Golden Clocks at Newcastle

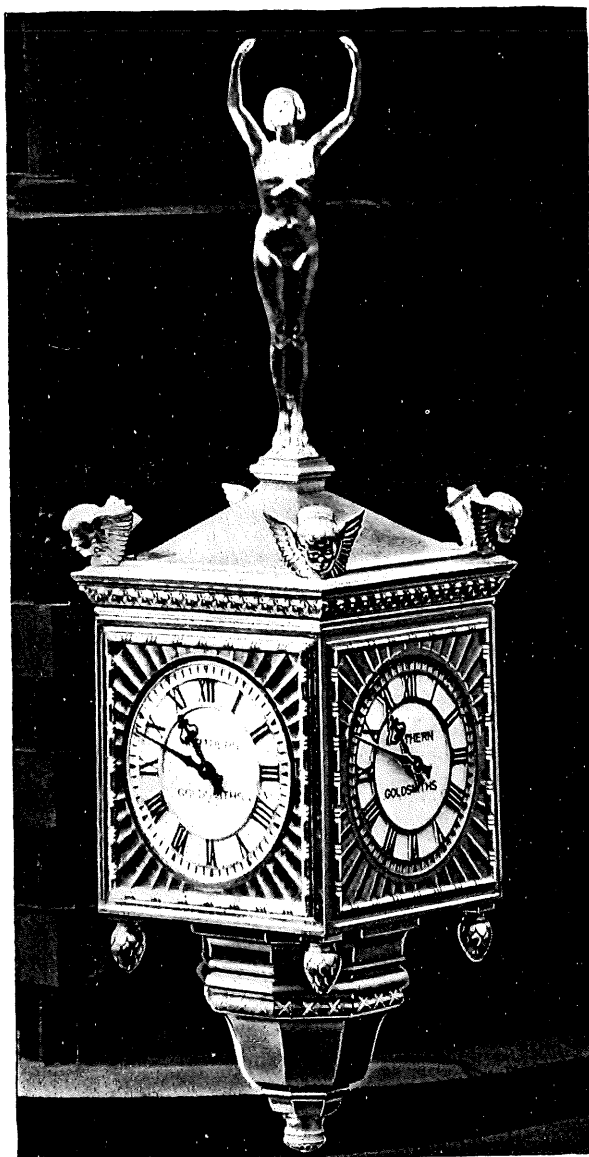
Two of these beautiful clocks have just been erected on the premises of Messrs. The Northern Goldsmiths Company, at Blackett Street and Clayton Street, Newcastle-upon-Tyne, and are considered to be the finest clocks in the North of England.

Each clock case, surmounted by a figure symbolical of Progress, measures 14 feet 6 inches in height, has four dials over 3 feet in diameter, and weighs over $1\frac{1}{2}$ tons.

The cases and figures are bronze, completely covered with English gold-leaf

Each of the dials are fitted with a SYNCHRONOME electrical impulse movement and each group of four is controlled by a SYNCHRONOME MASTER CLOCK, thus ensuring uniformity and great accuracy of time-keeping.

Messrs. The Northern Goldsmiths Company entrusted the whole of their order to—



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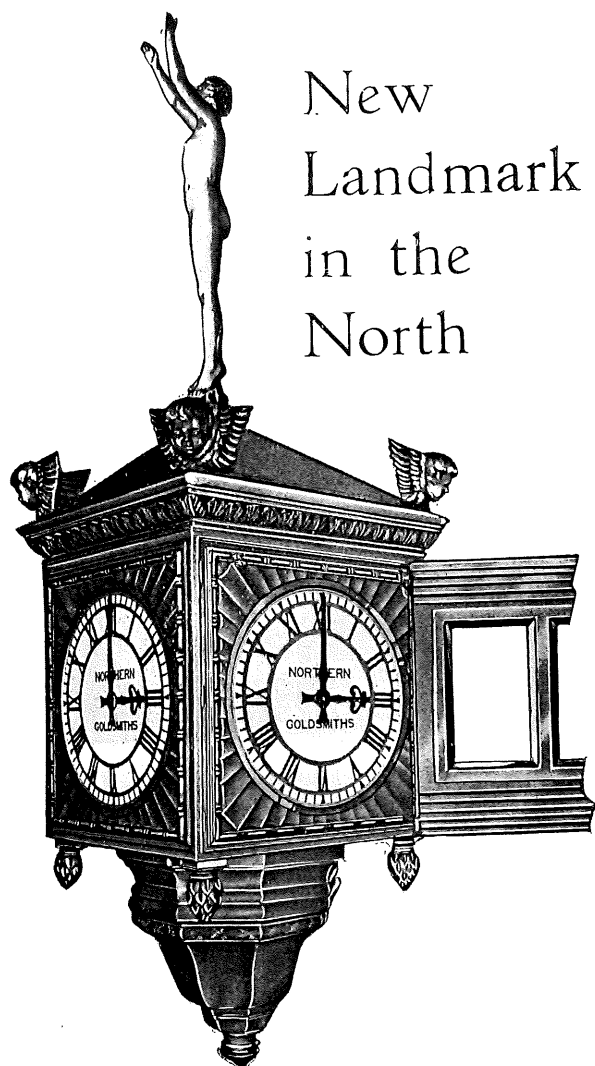
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whose services are always at *YOUR* disposal. Send us your enquiries for Electric Clock Installations of every description. Estimates gladly submitted without charge or obligation.

STOP PRESS

Since the above clocks were erected, The Northern Goldsmiths Company have entrusted us with a further order for **Striking and Chiming Mechanism complete with Bells.**

Say you saw the Advertisement in "THE HOROLOGICAL JOURNAL."



New Landmark in the North

Two impressive and unique public clocks have recently been completed and fixed outside the premises of the Northern Goldsmiths' Company, one at the corner of Blackett Street and the other at Clayton Street, Newcastle-on-Tyne.

The timepieces are made to be seen, and there will certainly be no difficulty in seeing them. Even for public clocks their dimensions are considerable. Each clock has an overall height of 14 feet 6 inches and weighs $1\frac{1}{2}$ tons. Each of its four dials is over 3 feet in diameter.

These clocks are supported on a cantilevered arrangement of steelwork projecting from the first floor of the Northern Goldsmiths' Company's buildings. Each of the four dials can be seen from far along four important thoroughfares. The whole structures are richly moulded, and the upper parts are in

the form of pyramids surmounted by solid bronze life-size figures symbolising Progress. Every inch of the figures, and of the entire clocks except the dials, are finished with pure gold leaf. The dials are illuminated after dark and the golden bronze figures are flood-lit.

The clocks are operated by the well-known Synchronome electric impulse system, the outstanding feature of which is the absence of "clockworks," which since the inception of the system in 1895, its inventor has whittled down until ten years ago the last wheel was dispensed with, and the world-famous Synchronome-Shortt free pendulum resulted. It is this instrument which has measured the time of the world at Greenwich since 1925 and broken all records for accuracy.

The standard master clock, which controls the four dials in each clock, is a commercial edition of and embodies the same fundamental principles as the free pendulum above referred to. It transmits an impulse to the "one wheel" movements behind each dial every half minute, thus ensuring absolute uniformity between all four dials. No winding whatsoever is required and the time-keeping is of the highest order, varying not more than one second per week.

The clocks were designed by the architects, Messrs. Cackett, Burns, Dick & Mackellar, and the order placed with the Synchronome Co., Ltd., of Westminster, London, who employed Messrs. The Tudor Art Metal Co. (1935), Ltd., to make the cases and cast the figures. The model from which the figures were cast was made by Mr. Arthur Glover, the well-known sculptor, of London, who has exhibited at the Royal Academy on many occasions.



LEIPZIG SPRING FAIR, 1936.

Dates Extended.

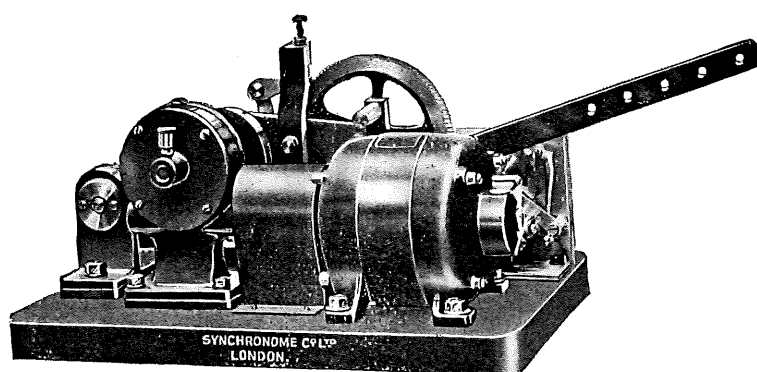
Following their successes at recent Leipzig Fairs, the majority of exhibitors have renewed their bookings for the Spring Fair, 1936, some for considerably increased space. The number of new exhibitors is also very encouraging. It is safe to predict that the number of exhibitors and the area occupied at the Spring Fair, 1936, will not only equal last Spring Fair's totals, but will exceed them. The General Samples Fair will be open from March 1st-6th, whilst it has been decided to keep the Great Engineering and Building Fair open until March 9th.

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**FIRST IN
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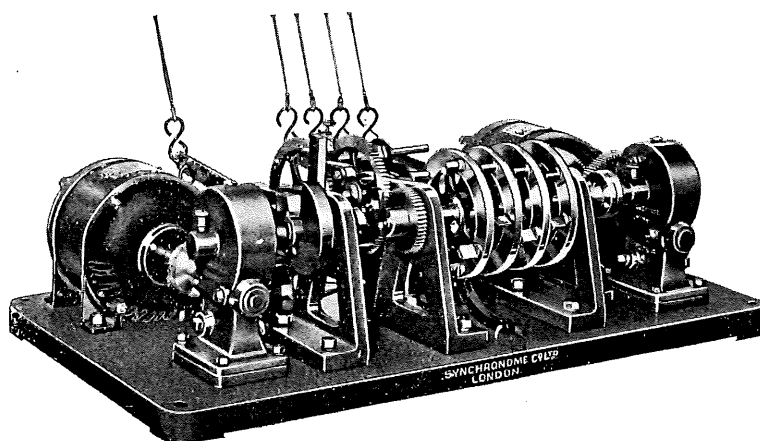
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ELECTRICALLY
OPERATED HOUR
STRIKING
MACHINE

ELECTRICALLY
OPERATED HOUR
STRIKING AND
WESTMINSTER
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ING MACHINE



Quotations for complete installations including Bells gladly submitted free upon receipt of particulars

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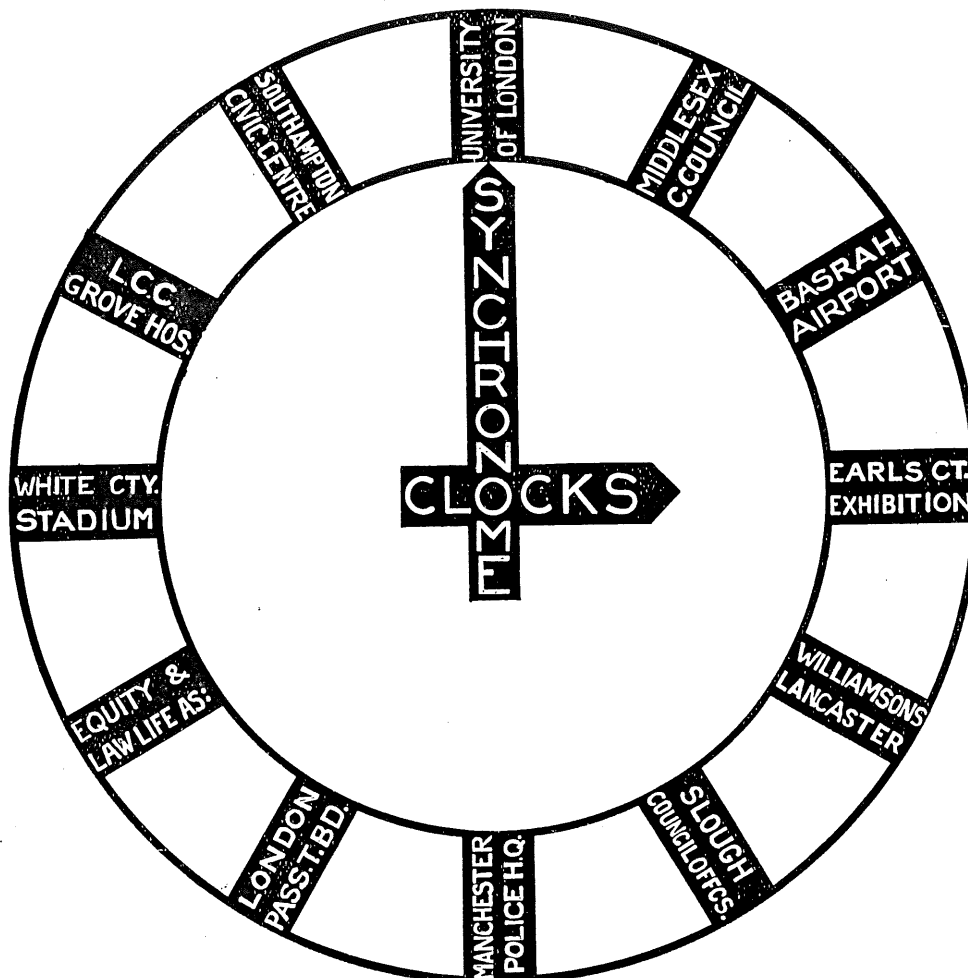
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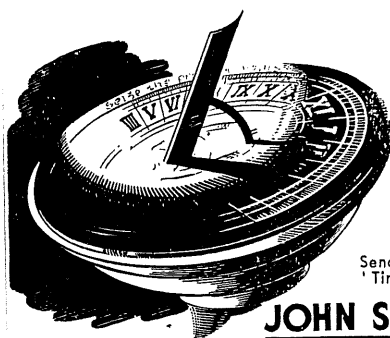
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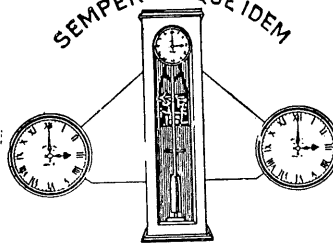
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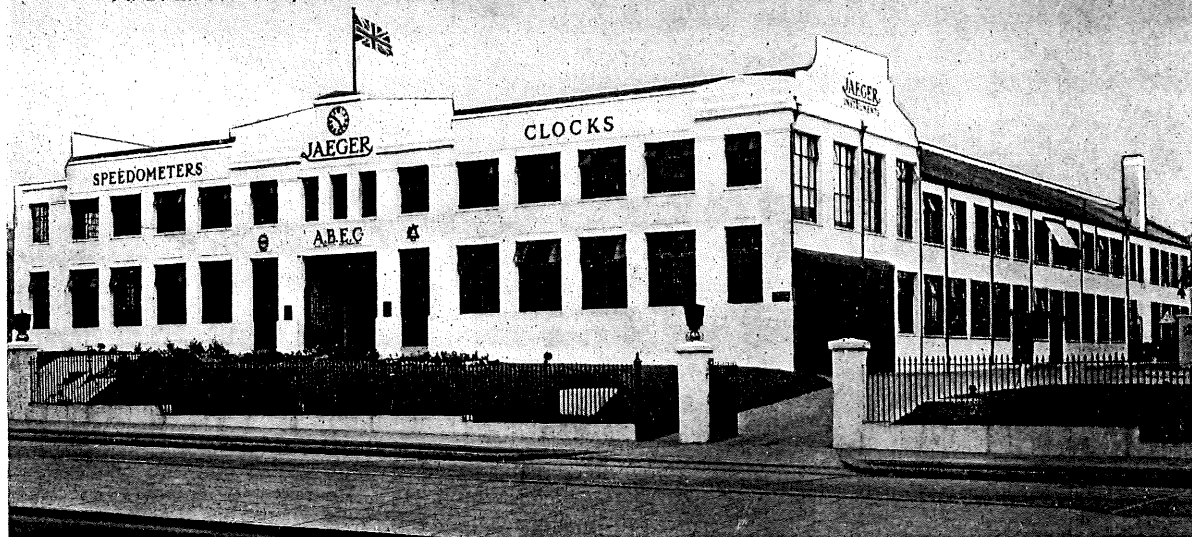
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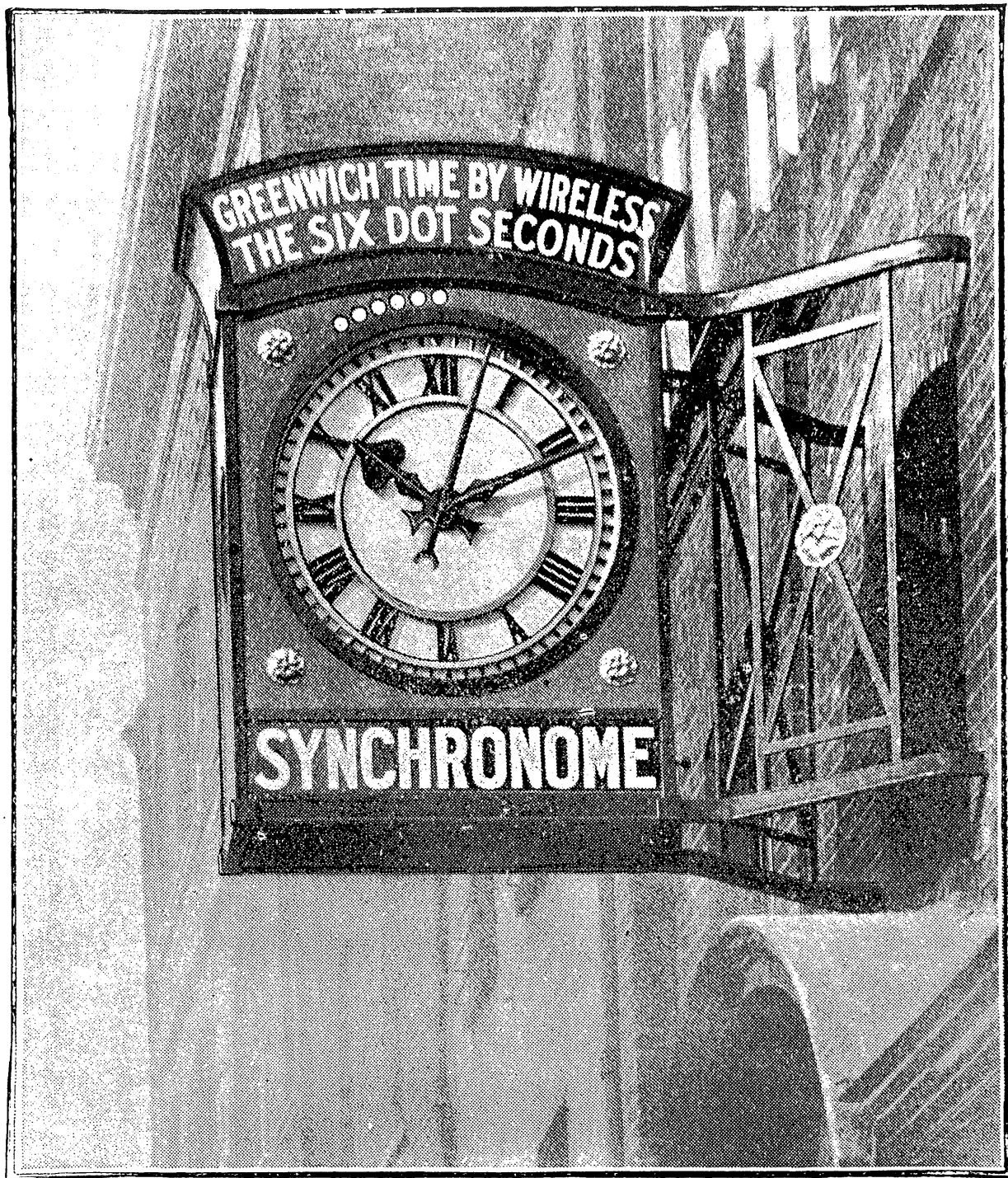
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See page 4



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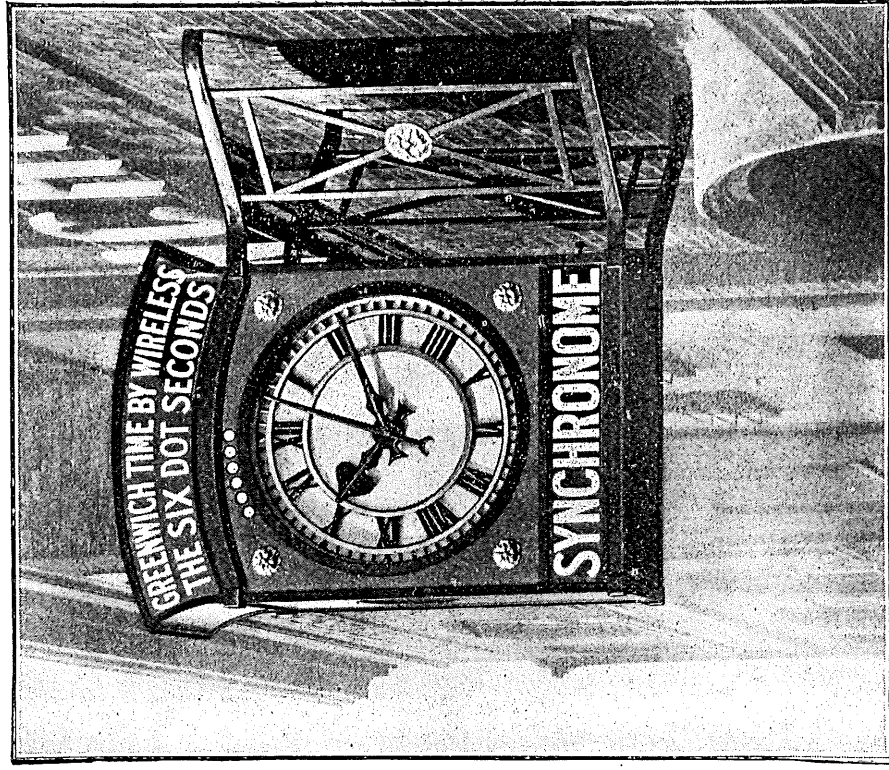
Instead of fading into history, it is still the birthplace and the nursery of great horological attainments.

We are reminded of this by the new electric double-faced illuminated bracket clock which has just been erected on "Synchronome House," in Clerkenwell Road, the home of electric clock inventions, from whence the wireless six dot seconds, the Synchronome System, and the famous "Short" Free Pendulum have sprung.

This handsome bracket clock has many original features. It is provided with sweep centre seconds hands—no mean achievement on dials of 3 feet diameter. The last six seconds of each minute are emphasised by luminous opal discs, and the wireless six dot seconds are sounded once every hour, by apparatus concealed within the case of the clock.

We can hardly question the accuracy of the service which is provided, since it is here where

the Observatory clocks are made, which for the last five years have been measuring the time of the world at Greenwich, also the special instruments for transmitting the Government time signals by wireless from the high power station at Rugby.



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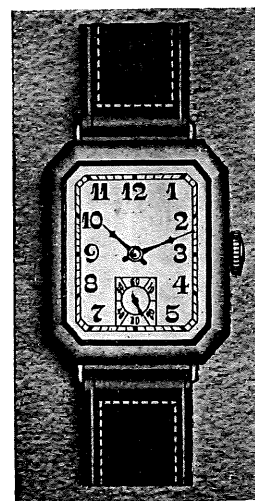
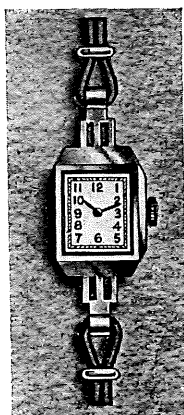
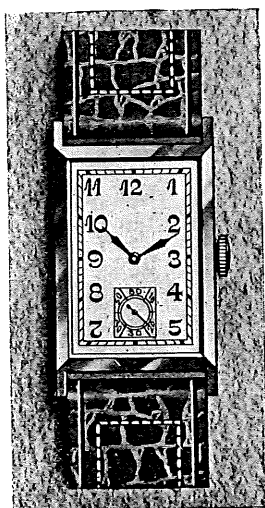
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