

No. 775,270.

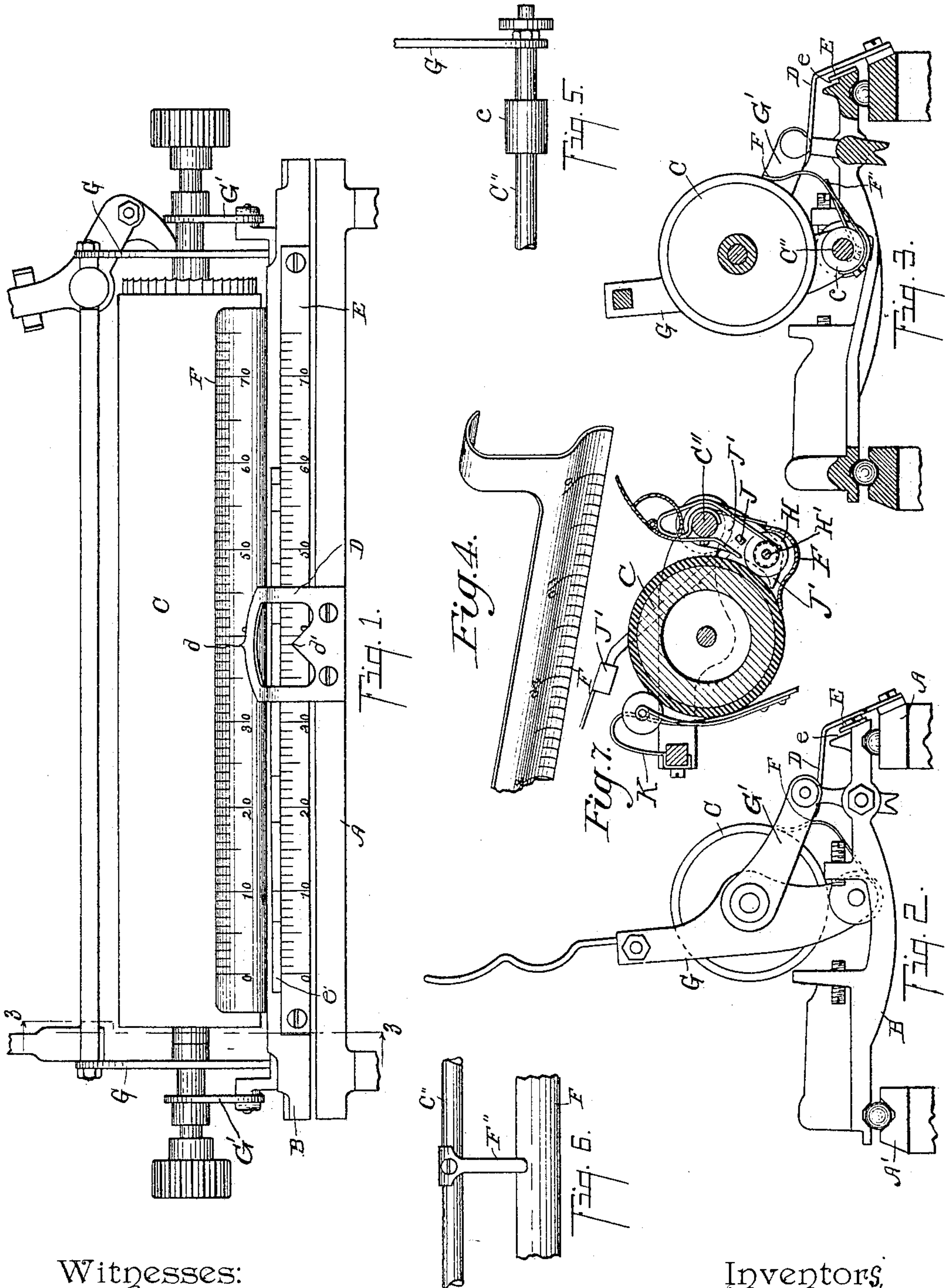
PATENTED NOV. 15, 1904.

W. R. FOX & G. J. BARRETT.

SCALE AND POINTER MECHANISM FOR TYPE WRITER MACHINES.

APPLICATION FILED DEC. 6, 1902.

NO MODEL.



Witnesses:

Ernest A. Teller

Oliver A. Earl

Inventors,

W. R. Fox & G. J. Barrett

By *Frederick H. Chapman*

Att'y.

UNITED STATES PATENT OFFICE.

WILLIAM R. FOX AND GLENN J. BARRETT, OF GRAND RAPIDS, MICHIGAN,
ASSIGNORS TO FOX TYPEWRITER CO., LTD., OF GRAND RAPIDS,
MICHIGAN.

SCALE AND POINTER MECHANISM FOR TYPE-WRITER MACHINES.

SPECIFICATION forming part of Letters Patent No. 775,270, dated November 15, 1904.

Application filed December 6, 1902. Serial No. 134,112. (No model.)

To all whom it may concern:

Be it known that we, WILLIAM R. FOX and GLENN J. BARRETT, citizens of the United States, residing at the city of Grand Rapids, in the county of Kent and State of Michigan, have invented certain new and useful Improvements in Scale and Pointer Mechanism for Type-Writer Machines, of which the following is a specification.

This invention relates to improvements in the scale and pointer mechanism for type-writing machines.

The object of this invention is to provide an improved scale and pointer mechanism in a type-writing machine which will permit of the easy adjustment of the paper in relation to the scale.

Objects relating to the details of the structure will definitely appear in the detailed description to follow.

We accomplish the objects of our invention by the devices and means described in the following specification.

The invention is clearly defined, and pointed out in the claim.

A structure embodying the features of our invention is fully illustrated in the accompanying drawings, forming a part of this specification, in which—

Figure 1 is a detail front elevation view of the upper part of a type-writer machine and the carriage when the platen is rocked back to expose the printing to view, showing our improved scale and pointer mechanism in place. Fig. 2 is an end elevation view taken from the left end of Fig. 1, the twirler being omitted. Fig. 3 is a detail sectional elevation view taken on the broken line 3 3 of Fig. 1 looking to the right. Fig. 4 is an enlarged detail perspective view of one end of the platen-scale. Fig. 5 is a detail elevation view of the lower corner of the platen-cradle and the scale-supporting means. Fig. 6 is a detail view of the spring for applying pressure to the platen-scale. Fig. 7 is a detail transverse sectional view through the structure appearing in Fig. 1 to the right of the center and looking to the left, showing the platen-roll in the

printing position and showing the relation of the feed-roll and scale.

In the drawings similar letters of reference refer to similar parts throughout the several views.

Referring to the drawings, A is the top frame of the machine, on which are carriage-ways A', supporting suitable ball-bearings, on which the carriage B reciprocates. The platen C is supported in a suitable cradle G, the same being connected by links G' to the carriage, so as to permit it to be swung up for the inspection of the type-written matter thereon, as indicated in Figs. 1 and 2. Upon the rear platen-cradle stay-rod C'' is also mounted two collars or sleeves c, to which are fastened the platen-scale F, formed as shown in Fig. 4 and having its edge which contacts with the platen graduated, the figures reading from left to right, which graduations properly aline with those of the carriage-scale E. (Clearly appearing in Figs. 1, 2, and 3.) A spring F'' (see Fig. 6) is secured to the rear platen stay-rod C'' and extends upwardly therefrom and rests against the rear of the platen-scale F to hold the same by gentle pressure against the platen. The scale F is secured by rearward extensions at each end, which embrace the collars c (see Fig. 5) and are retained thereon by suitable screws. (Distinctly appearing in Fig. 3.)

The form of the platen-scale is such that it not only guides the paper and holds it firm at the printing-point, but it also covers the feed-rolls, preventing their becoming soiled by the ribbon and in turn soiling the paper.

The manner of attaching the scale to the rear stay-rod enables the adjustment for alinement both longitudinally and vertically. The platen-scale is curved outwardly, and under it is formed a recess for the feed-roll H, carried on the shaft H', the same being supported by links J. These links J are controlled by the lever J', (see Fig. 7,) this means of controlling the rolls being made the subject-matter of our application for patent, Serial No. 134,110, filed December 6, 1902, for a paper-feeding mechanism for type-writers.

To the front of the platen is supported our improved paper-retainer K.

Behind the carriage-scale E is formed a space *e* to receive an auxiliary scale *e'* when
 5 it is desired to use such a scale. It is intended that this auxiliary scale be made for any particular requirements. In billing the scale is formed by merely cutting a strip from across the sheet and inserting it at this point,
 10 when the ruling of the page inserted into the platen will exactly correspond, and by conforming to this scale thus formed the location of the figures or words can be very readily determined.

15 Mounted on the front rail or on the top of the frame A is a double-pointed scale-indicator D, the same being cut away at the center, so that one pointer, *d'*, points to the scale E on the carriage at all times, and a second
 20 pointer, which is exactly opposite, extends farther up, so that it is in position to indicate on the platen-scale, thus making it possible for the operator to tell at a glance by means of the pointers independent of the scale exactly at what point on the sheet the printing
 25 will occur at the next stroke of the type-bar. When the platen C is rolled down to the printing portion, the pointer *d* is of no particular utility.

These last four named features are merely 30 described as having been illustrated in this connection and are not claimed as a part of this invention.

Having thus described our invention, what we claim as new, and desire to secure by Letters Patent, is— 35

In a type-writing machine, the combination of the carriage; a platen thereon; a feed-roll retained yieldingly against the platen, with means of manipulating the same; a platen-scale, broad, and conformed to embrace said roll out of contact therewith to shield it from the ribbon and permit the separation of the feed-roll from the platen before contacting with the said yielding scale, whereby the contact of the feed-roll with the paper can be relieved for the ready adjustment of the paper under the scale, and the feed-roll and scale can both be raised for the convenient removal and insertion of the paper, as specified. 40 45 50

In witness whereof we have hereunto set our hands and seals in the presence of two witnesses.

WILLIAM R. FOX. [L. S.]
 GLENN J. BARRETT. [L. S.]

Witnesses:

EDWARD G. MATTER,
 GEO. K. McMULLEN.