E. AND C. E. SUDLER.

TYPEWRITER ATTACHMENT.

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1,353,939.

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Fig. 1.

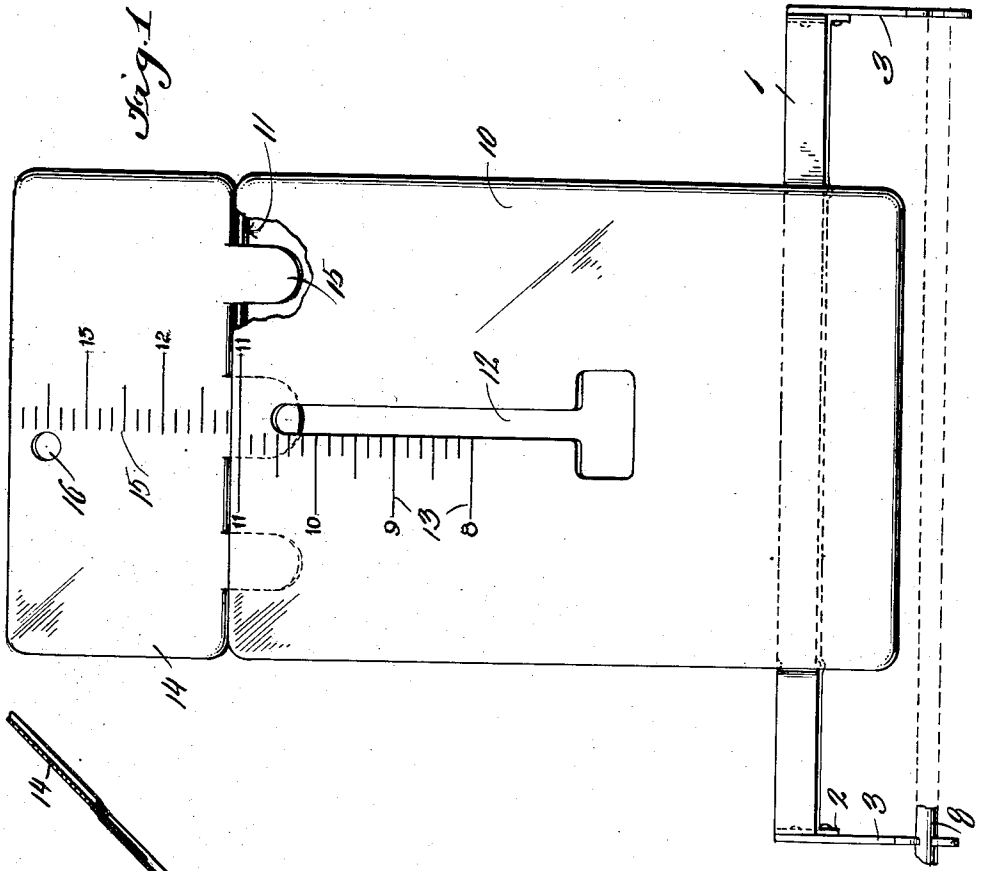


Fig. 4.

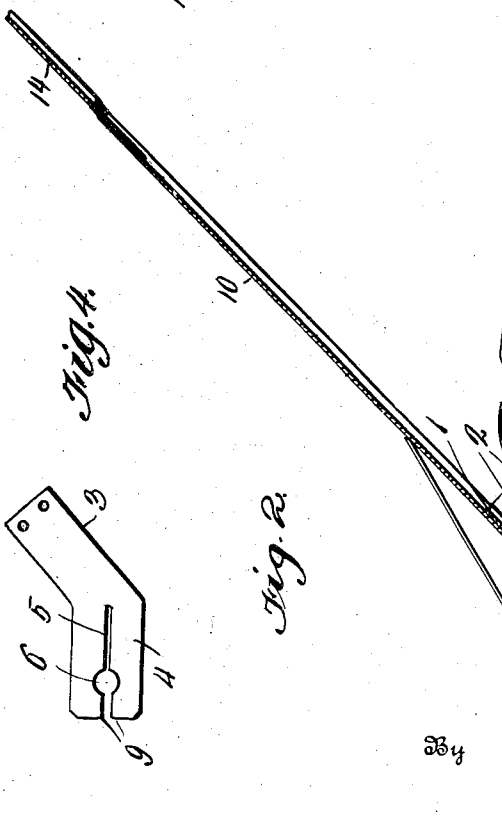


Fig. 5.

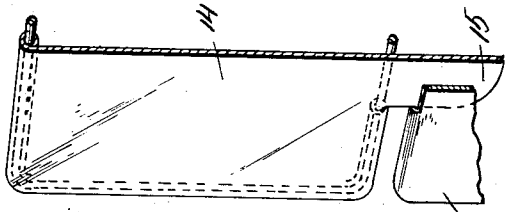


Fig. 2.

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UNITED STATES PATENT OFFICE.

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TYPEWRITER ATTACHMENT.

1,353,939. Specification of Letters Patent. Patented Sept. 28, 1920.

Application filed December 29, 1919. Serial No. 348,018.

To all whom it may concern:

Be it known that we, EMORY SUDLER and CHARLES E. SUDLER, citizens of the United States, residing at New York, in the county of Kings and State of New York, have invented certain new and useful Improvements in Typewriter Attachments, of which the following is a specification.

This invention relates to attachments for typewriters and is especially designed to give visual notice to the typist of the precise position of the paper in the typewriter.

Objects of the invention are to provide an attachment which is capable of expeditious association with or removal from the typewriter; to permit normal operation of the typewriter without interfering in any way therewith; to provide an attachment which may be conveniently folded on the typewriter, when the latter is not in use, to allow for use of the typewriter cover in the usual way or to permit the typewriter to be folded into the desk in a well known manner; to provide an exceedingly simple structure which will require no attention whatsoever from the typist and will enable the writer to do more rapid and more accurate work; and to provide an attachment of this kind which may be very cheaply manufactured and will last for an indefinite period of time.

The above and other objects and advantages of this invention will be in part described and in part understood from the following description of the present preferred embodiment, the same being illustrated in the accompanying drawings, in which:

Figure 1 is a top plan view of our improved invention, a part thereof being broken away to disclose a detail.

Fig. 2 is a longitudinal sectional view of the device illustrating its application.

Fig. 3 is a detail fragmentary perspective view, partly in section showing the manner of connection between the two scale plates, and

Fig. 4 is a side elevational view of one of the fingers used for attaching the device to a typewriter.

It is to be understood that the device of our invention may be used on any type of typewriter, but in order to illustrate the application of the invention we have, in the drawings, illustrated a portion of an Underwood typewriter in dotted lines.

As shown to advantage in Fig. 1 of the drawings the invention consists of a frame comprising a bar 1 the terminals of which are turned at right angles as indicated at 2. Secured to the right angle terminals 2 are fingers 3 each of which consist of a metal strap the free end of which is bent obtusely to the longitudinal axis of the body as shown at 4 and illustrated to advantage in Fig. 4. This angle end 4 has a bifurcation 5 formed therein which terminates approximately at the inception of the angle. The walls of the bifurcation, approximately midway the ends of the latter are provided with semicircular recesses 6 which are adapted to receive a permanent part of the machine such as the circular rod 8 slightly above and to the rear of the typewriter platen, as shown to advantage in Fig. 2. These fingers are adapted to engage the said rod just within the ends of the carriage, and are preferably snugly engaged with the latter so as to not interfere with the paper, paper retaining clip or fingers etc. Attention is likewise directed to the fact that the proximate faces of the free ends of the bifurcation branches are beveled as indicated at 9 to facilitate introduction of the rod 8 into the recesses 6.

A main scale plate 10 is mounted upon and secured to the bar 1. Preferably the plate 10 is made of a sheet of metal the margins of which are rolled over a wire frame 11. The lower end of the frame has the rolled portions thereof depressed into the bar 1 thereby securing said plate from displacement. Although we have shown this manner of securement between the plate 10 and bar 1 we do not wish to limit ourselves to this manner of construction since the plate may be secured in numerous ways. However it will be found most desirable to secure the plate adjacent the lower end of the latter and approximately midway between the ends of the bar shown to advantage in Fig. 1. An inverted T shape slot 12 is formed in the plate 10 and has graduation marks 13 extending from one side of the slot adjacent the lower end of the latter to a point in close proximity to the upper margin of the plate.

The plate 10 is used where letter size paper is being typewritten upon. Should it however be desired to use the device of our invention with legal size paper, which is generally recognized to be greater in length than the letter size paper, an auxil-

iary scale plate 14 may be used. This plate is made in substantially the same way as plate 10 except that portions of the lower end of the body are extended in front of its wire frame so as to provide integral fingers or tabs 15 which engage correspondingly formed openings in the top of the plate 10 as shown to advantage in Figs. 1 and 3. Graduation marks 15 are arranged centrally on the plate 14, directly in longitudinal path of the slot 12 formed in the plate 10.

In using this device it is only necessary to exert sufficient pressure on the fingers 3 to cause expansion of the branches of the bifurcation until the rod 8 enters the recesses 6. The paper used in the machine is fed behind the plate 10 so as to be actuated by moving the platen, in the usual way. As shown in Fig. 2 the upper margin of the paper will be fed upwardly on the plate 10 and the position of said margin, with respect to the graduations 13 and 15, will determine the position of the paper. For instance when the upper margin of the paper reaches the graduation mark 9 it will at once be apparent to the typist that there are two inches of paper remaining to be used before the lower margin of the paper is reached, assuming that the standard letter size sheet of eleven inches is used. When it is desired to place the typewriter cover on the typewriter or to fold the latter into the desk, the plate 14 is removed in an obvious manner, and the plate 10 then swung forwardly. When in this position the plate will rest upon the typewriter carriage and the inverted T shape slot 12 will receive a projection on the front bar of the carriage so as to permit the plate to lie close to said bar thereby insuring compactness. The plate 14 may be provided with an opening 16 to facilitate its removal.

We have above described what we consider the preferred embodiment of our invention and we are aware that changes can be made therein, to adapt this device for universal use on typewriters, without departing from the spirit and scope of our invention. We also desire it to be understood that this device may be made of any material and of any desired size and shape found most convenient to the use for which it is intended.

What is claimed is:

1. A typewriter attachment including a plate having indicia thereon to visualize the position of paper in the typewriter, a second plate carried by the first plate and provided with indicia in serial with the indicia on the first plate to indicate the position of the typewriter paper when the latter is of such length as to extend beyond the outer terminal of the first plate, and means for associating said plates with the typewriter.

2. A typewriter attachment including a frame engageable with a permanent part of the typewriter and equipped with an upstanding graduated plate, and a second graduated plate detachably carried by the first plate.

3. A typewriter attachment including a bar equipped with bifurcated fingers which are flexed onto the typewriter, and a scale plate mounted on said bar to indicate the position of the paper in the typewriter.

4. A typewriter attachment including a bar having right angled ends, fingers secured to said ends and bifurcated for slidable engagement with the typewriter, and a scale plate mounted on said bar to indicate the position of the paper in the typewriter.

In testimony whereof we affix our signatures.

EMORY SUDLER.
CHARLES E. SUDLER.