Oct. 9, 1923. 1,469,978

U. B. WHITE ET AL

MARGIN INDICATOR

Filed Sept. 8, 1920

Fig.1.

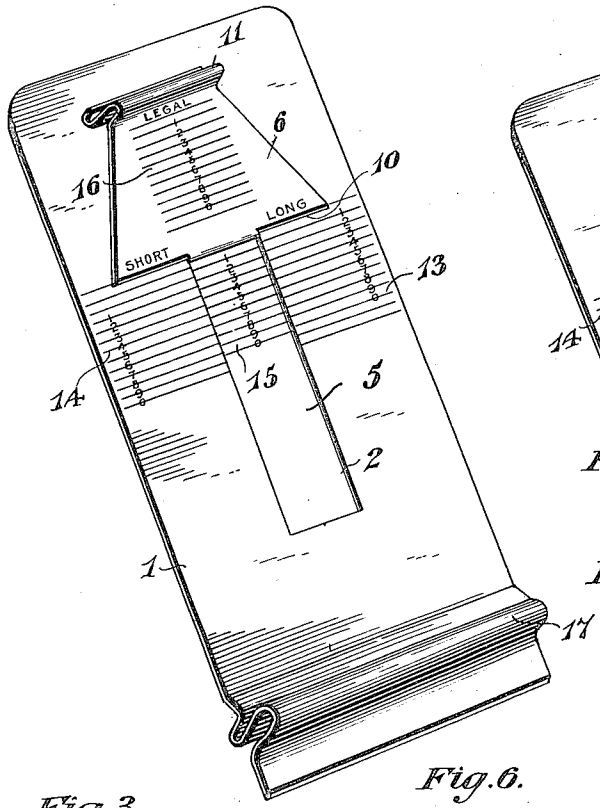


Fig.2.

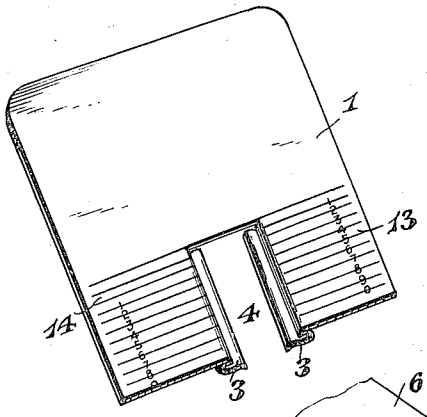


Fig.5.

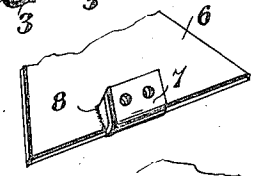


Fig.7.

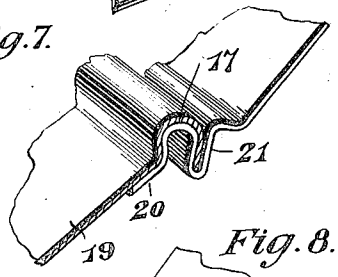


Fig.3.

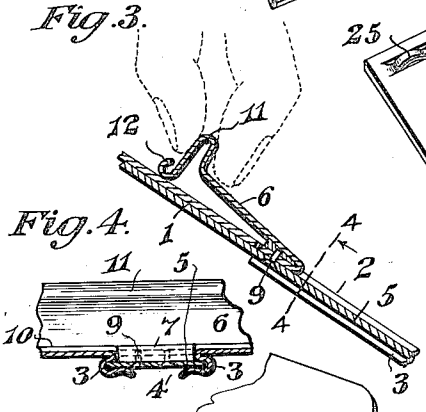


Fig.4.

Fig.6.

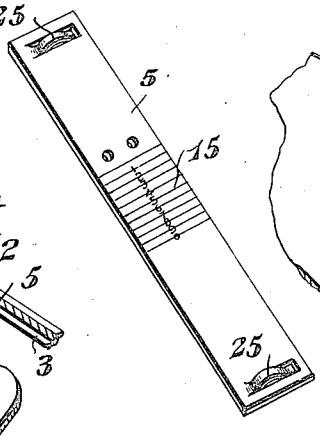


Fig.8.

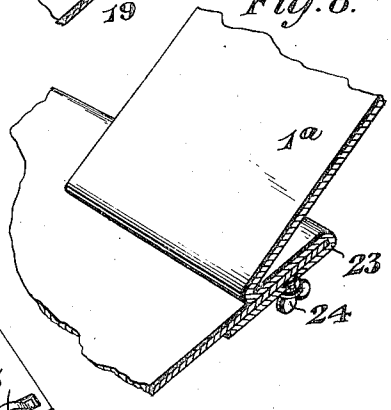
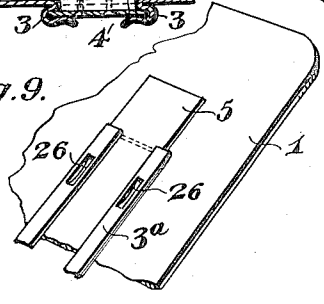


Fig.9.



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UNITED STATES PATENT OFFICE.

UNION B. WHITE AND HAROLD N. LAWRIE, OF WASHINGTON, DISTRICT OF COLUMBIA.

MARGIN INDICATOR.

Application filed September 8, 1920. Serial No. 408,916.

To all whom it may concern:

Be it known that UNION B. WHITE and HAROLD N. LAWRIE, citizens of the United States, residing at Washington, in the District of Columbia, have invented certain new and useful Improvements in Margin Indicators, of which the following is a specification.

This invention relates to margin indicators for typewriters, and has for its object the production of a simple and efficient device, which may be readily attached to or detached from a typewriting machine.

Another object of the present invention, is the production of a margin indicator which may be easily adjusted for use with the long or short type of letter sheet, or with the standard legal sheet.

A still further object of this invention, is the production of a margin indicator, which will, at all times, keep the operator advised as to the number of lines remaining at the bottom of the sheet, upon which he is writing, and thereby permit an even margin to be maintained along the bottom edge of the typewritten sheet.

With these and other objects in view, this invention consists of certain constructions, combinations and arrangements of parts, as will be hereinafter fully described and claimed.

In the drawing:

Fig. 1, is a perspective view of the margin indicator, removed from a typewriting machine.

Fig. 2, is a fragmentary perspective view of the body of the indicator, with the adjustable indicator and stop removed.

Fig. 3, is a longitudinal sectional view of the upper end of the indicator, showing the manner of attaching the stop to the adjustable indicator.

Fig. 4, is a section taken on line 4—4 of Fig. 3.

Fig. 5, is a detail perspective view of the lower end of the stop, showing the underside thereof.

Fig. 6, is a perspective view of the adjustable indicator which is carried by the body of the indicator.

Fig. 7, is a perspective view showing the manner of attaching the margin indicator to the paper rest of one of the standard typewriters, such as the Underwood.

Fig. 8, is a perspective view of a modified form of the means for attaching the margin indicator to a straight paper rest.

Fig. 9, is a perspective view of a modified form of the device, showing the rear face of the body of the indicator, the track-ways of the body, within which the adjustable indication travels, being provided with spring tongues, for holding the adjustable indicator in an adjusted position.

By referring to the drawings, it will be seen that 1 designates the body of the indicator, which is provided with a longitudinal slot 2, the body 1 having track-ways struck from the sides of the slot 2, as indicated at 3. An adjustable indicator 4 is slidably mounted in the track-ways or flanges 3, and these track-ways are preferably formed of spring metal as illustrated in Fig. 4. The track-ways or flanges 3 are formed by folding the metal back upon itself along the edges of the slot 2, and then reversing the fold so as to provide a channel 4. The adjustable indicator 5, is slidably mounted within the track-ways 3 and has its side edges fitting in the channels 4, shown also in Fig. 4.

A stop 6 is carried by the adjustable indicator 5, and this stop 6 is provided with a tongue 7, bent under the body of the stop and extending at an angle thereto; a plug or filler 8 fitting between the tongue 7 and the stop 6, as shown in Fig. 4 and constituting a brace for the stop 6. This plug 8 may be soldered to the under face of the stop 6, and suitable rivets or screws 9 pass through the adjustable indicator 5, the tongue 7 and into the plug 8 for securely fastening the stop 6 to the adjustable indicator 5. The stop 6 comprises a plate which tapers toward its upper end, although it should be understood that it is not desired to limit the device to any particular shape. The tongue 7 is the same width as the slot 2 in the body 1, but the stop 6 extends beyond the sides of the slot 2, so as to overhang the body 1 and permit the lower edge of the stop 6, as indicated by the numeral 10, to act as an abutment or stop for letter sheets of the long or short type, according to the adjustment of the stop 6. The upper end of the stop 6 terminates in an upstanding rolled portion, constituting a finger grip 11. The lower end of the finger grip 11 is also rolled to form a bearing 12. The stop 6 may also be formed of spring metal, thereby causing the rolled bearing 12 to frictionally grip the face of

the body 1 and assist in holding the adjustable indicator in a set position.

Preferably, the body 1 is colored in contrast to the face of the stop 6, but it is not desired to limit the present disclosure to any particular color, although the body 1 may be colored red, the stop 6 green or blue, and the adjustable indicator 5 may be white.

A scale 13 is arranged to the right of the slot 2, upon the face of the body 1 and consists of a series of transversely extending graduated lines numbered from top to bottom as 1 to 10. The line numbered 1 starts at a point next below a line drawn in alignment with the upper edge of the slot 2, as shown in Fig. 2. The stop 6 may be adjusted to the desired point upon the scale 13, in order that the lower edge of the stop might act as a mechanical abutment against which the upper edge of a letter sheet may abut, thereby advising the operator that the sheet should be removed from the typewriting machine, in order that a proper margin might be left at the bottom of the sheet. The legend "Long" is placed upon the right of the stop 6 near the lower edge thereof, just above the scale 13, designating the scale which should be used in connection with letter sheets of the long type. The legend "Short" is likewise placed upon the left lower edge of the stop 6 to indicate the scale which should be used in connection with letter sheets of the short type.

A scale 14 is arranged to the left of the slot 2, and is numbered from 1 to 10 beginning with the fourth line from the top. This scale 14 is used in connection with letter sheets of the short type.

The adjustable indicator 5 is provided with a scale 15, numbered from 1 to 10 beginning with the line just below the lower edge of the stop 6. This scale 15 is especially advantageous when it is desired to leave a wider margin at the end of the sheet than is ordinarily left, or when sheets of a shorter length than the standard are used. The scale 15 is movable with the stop 6 and will therefore keep the operator advised as to the nearness of the bottom of the sheet or the top of the margin.

The legend "Legal" is placed at the top of the stop 6 and a scale 16 is arranged below the legend and beginning on the line next below the legend, and is numbered 1 to 10. This scale 16 is for use in connection with "Legal length" paper, the finger grip 11 acting as a stop for the upper end of the legal sheet.

The lower end of the body 1 is preferably made to conform to the contour of the upper end of the paper rest and is provided with a rolled portion 17, which is adapted to slide under the rolled portion 18 of the paper rest 19, such as is used upon the Underwood machine. The rolled portion 17 is provided with a projecting lip 20, which extends under the paper rest 19, and acts as a brace for the margin indicator. The rolled portion terminates at its opposite end in a folded portion, which fits snugly around the outer edge of the rolled portion 18, as indicated at 21. The folded portion 21 terminates in an offset portion 22, which is formed directly upon the lower end of the body 1. In placing the device upon a machine, the rolled portion 17 is inserted under the rolled portion 18, endwise of the paper rest, thereby rigidly holding the margin indicator in engagement with the paper rest.

A modified form of the means for attaching the indicator to the paper rest, is shown in Fig. 8, wherein the body 1^a is provided with a rearwardly extending folded portion 23, which is adapted to fit over a straight type of paper rest. If desired, a clamping screw may be used for clamping the folded portion 23 to the paper rest, as shown at 24.

Fig. 6 discloses the adjustable indicator 5 as provided with spring tongues 25 extending transversely of the indicator 5, the tongues 25 constituting a frictional grip against the rear face of the body 1.

Fig. 9 discloses a further modified form for holding the adjustable indicator against slipping, wherein spring tongues 26 are formed in the flanges 3^a, for engaging the indicator 5.

From the foregoing description, it will be seen that a very simple device has been produced, which consists of a minimum number of parts, and which may be cheaply constructed and readily applied to a typewriter, without altering the construction of the machine.

The device, resting at the convenient angle with relation to the paper rest, continuously serves as a paper support and added paper rest for the paper sheet on which the operator is writing, and at all times holds the paper sheet at a convenient and visible position to be readily viewed by the operator. The indicator is adapted to extend at substantially the same angle as the paper rest and constitutes a continuation thereof.

When the stop 6 is in a predetermined or standard position, by predetermined measurement, a standard letterhead of the size $8\frac{1}{2}''$ x 11'' will feed through the typewriter, and when the top of the sheet reaches the lower edge 10, the typist will have reached his last line on said page. The scale 13 is used with paper of the size above mentioned. When the standard sheet used is 8'' x $10\frac{1}{2}''$, the scale 14 is used in a similar manner. When a legal size sheet, $8\frac{1}{2}''$ x 13'', is used, the scale 16 will determine the margin at the bottom of the sheet. Having established by predetermined measurements, the standard position of the indicator, it will be seen that, after the top

of the paper sheet reaches the lower line 0 of either scale 13, 14, 15, or 16, the typist is warned, line by line, as he proceeds, of the exact number of lines yet remaining to be written on the sheet.

It should be understood that the operator may adjust the device to any desired width of margin, to-wit: If the typist desires to stop the typewritten page, say, five lines from bottom of sheet, he would slide the stop 6 downward so that the lower edge-line of stop 6 would be immediately over and parallel with line —5—. Under these conditions, the indicator or strip 5 would register, line by line, the number of typewritten lines yet remaining to be written before the desired last line is reached by the typist. It should also be understood that certain detail changes may be made in the construction of the device without departing from the spirit of the invention, so long as these changes fall without the scope of the appended claims.

What is claimed is:

1. An indicator comprising a body, an adjustable indicator slidably mounted thereon, a stop provided with an under bent tongue secured to said adjustable indicator, a filler plug fitting between said tongue and the body of said stop for bracing the same, a finger grip formed upon one end of said stop and terminating in a downwardly extending rolled portion for frictionally gripping the face of said body, and said finger grip constituting a paper stop.

2. An indicator comprising a body provided with a scale formed thereon, an adjustable indicator scale slidably mounted upon said body, a stop carried by said adjustable scale and extending at an incline thereto and formed of spring metal, an upstanding finger grip carried by said stop and terminating in a downwardly extendiing rolled portion bearing upon the face of said body, said finger grip constituting a paper stop for a long sheet, and the lower edge of said stop constituting a paper stop for a short sheet, and a scale formed upon the face of said stop.

3. An indicator comprising a body, an adjustable indicator slidably mounted thereon, a stop secured to the upper face of said adjustable indicator and overhanging the upper face of said body, a finger grip formed upon one end of said stop and terminating in a downwardly extending portion for frictionally gripping the upper face of said body and frictionally holding said stop in a set position with respect to said body.

4. An indicator comprising a body, an adjustable indicator slidably mounted thereon, said body provided with a slot formed therein having side flanges formed along the side edges thereof, said slidably mounted indicator being positioned within said flanges, the flanges constituting track-ways, a stop member secured to said adjustable indicator and extending through said slot and overhanging one face of said body for preventing the accidental removal of said adjustable indicator from said body, and means for attaching said body to the paper rest of a typewriting machine.

5. An indicator comprising a body having a slot formed therein, an adjustable indicator slidably mounted upon the under face of the body under said slot, a stop carried by said adjustable indicator and extending through said slot and overhanging the upper face of the body for retaining said adjustable indicator within said slot, and a finger grip formed upon the upper end of said adjustable indicator and constituting a paper stop.

6. An indicator comprising a body, an adjustable indicator slidably mounted upon the body, a finger grip formed upon one end of said adjustable indicator and constituting a paper stop, and a portion of said adjustable indicator being bent to frictionally engage the upper face of said body and frictionally hold the adjustable indicator in a set position upon said body.

7. A margin indicator for use in connection with a paper rest of a typewriter, comprising an elongated body of material length, said body provided with a rolled lower end adapted to fit snugly under the lower face of the upper edge of a paper rest for supporting the indicator in substantially the same plane with said paper rest and permitting said indicator to constitute a substantial continuation of the paper rest.

8. A margin indicator for use in connection with typewriting machines, comprising an elongated body of material length, said body provided with a rolled lower end having a projecting extremity, the rolled lower end and projecting extremity of said body fitting snugly under and conforming to the contour of the upper edge of the paper rest for fixedly supporting said indicator in engagement with the paper rest and permitting said indicator to be supported in substantially the same plane with the paper rest and constituting a continuation thereof.

In testimony whereof we affix our signatures.

UNION B. WHITE.
HAROLD N. LAWRIE.

Witnesses:
D. M. SOUDER,
M. A. NILAND.