To all whom it may concern:

Be it known that I, ROYAL KOCH, a citizen of the United States, residing at Bethlehem, in the county of Northampton and State of Pennsylvania, have invented a new and useful Ribbon-Guide and Paper-Holder for Type-Writing Machines, of which the following is a specification.

This invention relates to type-writing machines, and has for its object to provide an improved attachment therefore which is arranged to guide or support the ink-ribbon at the point of contact by the type and also to snugly hold the paper against the platen roller at the point of contact by the type, so as to insure a perfect impression upon the paper. It is particularly designed for holding the free lower edge of a card, envelop, or the like snugly against the platen after the card has cleared the usual scale-bar upon the carriage, so that the writing may be carried out to the extreme edge of the card or paper.

With these and other objects in view the present invention consists in the combination and arrangement of parts, as will be hereinafter more fully described, shown in the accompanying drawings, and particularly pointed out in the appended claims, it being understood that changes in the form, proportion, size, and minor details may be made within the scope of the claims without departing from the spirit or sacrificing any of the advantages of the invention.

In the drawings, Figure 1 is a perspective view of the ribbon-guide and paper-holder. Fig. 2 is a bottom plan view thereof. Fig. 3 is a central longitudinal sectional view. Fig. 4 is a central transverse sectional view showing a portion of the roller-platen in dotted lines.

Like characters of reference designate corresponding parts in all of the figures of the drawings.

The present invention is particularly designed to improve the ribbon-guide now in common use upon "Remington" machines, although the novel features may be applied to an attachment for any machine employing an inking-ribbon.

The body of the device consists of a flat metallic bar or strip 1, the opposite ends of which are provided with any suitable means for connection with the frame of a machine to support the device in position for the reception of a ribbon. The middle portion of the body is provided with a transverse opening 2, which opens outwardly through the front edge of the body and is designed to expose the upper surface of the ribbon that passes beneath the guide. Adjacent to the back edge of the body there are provided the opposite corresponding longitudinal incisions 3, which extend in opposite directions from the respective edges of the opening 2, thereby forming spring-tongues 4, which are sprung upwardly, so as to incline inwardly in opposite directions, with their free ends elevated slightly above the plane of the body. The extreme outer edge of each tongue is bent downwardly to form a pendent flange 5, which has a longitudinal slot 6 formed therein for the loose reception of the ribbon 7, which is threaded endwise through both flanges, whereby this portion of the ribbon is elevated slightly above its ordinary position, so as to be nearer the platen. To obviate weakness, in view of the incisions the back edge of the body is provided with an intermediate stiffening-rib or thickened portion 8, which spans the opening 2 and projects equally in opposite directions beyond the same.

Upon examination of Fig. 4 it will be seen that the free ends of the spring-tongues lie close to or in frictional engagement with the under side of the roller-platen, which has been indicated in dotted lines, whereby a sheet of paper or whatever is being written upon is clamped snugly between the platen and the tongues, so as to hold even the extreme edge of a sheet of paper firmly against the roller, thereby to secure a firm backing therefor. This feature is particularly advantageous in addressing envelopes and writing upon postal cards, as the lower free edges of the same are effectively held in engagement with the platen instead of lying below the same and out of contact therewith, as is now the case with all type-writing machines. Furthermore, the spring-tongues are located so as to hold the intermediate edge portion of the paper at the point where the type strike, the tongues being also of sufficient width to firmly hold the sheet being written upon in proper position during the shifting movement.
of the carriage for imprinting both upper and lower case letters.

Fig. 3 of the drawings shows in dotted lines the approximate position of the platen, as the spring-tongues have not been shown depressed, while Fig. 4 shows the exact relation between the tongues and the platen, one of the former being shown in engagement with the under side of the platen and depressed thereby, whereby the tongue bears upwardly against the platen to hold a sheet firmly against the latter.

What is claimed is—

1. A combined ribbon-guide and paper-holder for type-writing machines having a laterally-movable roller-platen, comprising a pair of spring-tongues extending in unbroken lines transversely of the platen and on either side of the line of type impressions, said tongues being adapted to press and firmly hold the sheet being written upon in contact with the platen at points in direct alinement with the line of type impressions and being of a width sufficient to firmly hold the sheet in position during the lateral movement of the platen for imprinting both the upper and lower case letters.

2. A combined ribbon-guide and paper-holder for type-writing machines having a laterally-movable roller-platen, comprising a sheet or strip of metal having an intermediate opening to expose the ribbon at the striking-point of the type, paper-holding tongues sprung upwardly from the opposite walls of the opening and adapted to press and firmly hold a sheet of paper against the platen, said tongues being of a width to hold the sheet in position during the lateral shifting of the platen and extending in unbroken lines completely across the top of the ribbon and serving to prevent contact of the latter with the paper except at the point of impact of the type.

3. A ribbon-guide and paper-holder for type-writing machines, comprising a sheet of metal having at its central portion a transverse opening for exposing the ribbon, spring-tongues disposed on either side of the opening and extending completely across the ribbon, said tongues having their extreme ends bent downward to form pendent flanges and each flange being provided with a longitudinal slot for the reception of the ribbon, substantially as specified.

4. A paper-holder and ribbon-guide for type-writing machines, consisting of a flat bar, having opposite terminal fastenings for connection with a type-writing machine, and provided with an intermediate transverse opening intersecting the front edge thereof, there being longitudinal incisions formed in the bar and extended in opposite directions from the inner ends of the respective edges of the opening to form opposite spring-tongues, which are sprung upwardly to incline inwardly in opposite directions, the free ends of the tongues being provided with pendent transverse flanges, which are slotted longitudinally for the reception of a ribbon.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

ROYAL KOCH.

Witnesses:

ROBT. J. ZERWECK,
PAUL A. HARTZELL.