

No. 733,975.

PATENTED JULY 21, 1903.

E. F. KUNATH.  
RIBBON GUIDE HOLDER FOR TYPE WRITERS.  
APPLICATION FILED MAR. 31, 1903.

NO MODEL.

Fig. 1.

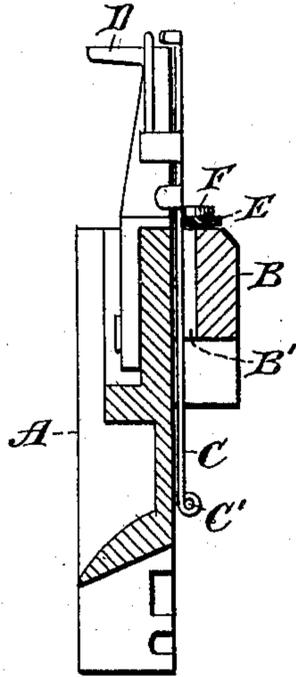


Fig. 2.

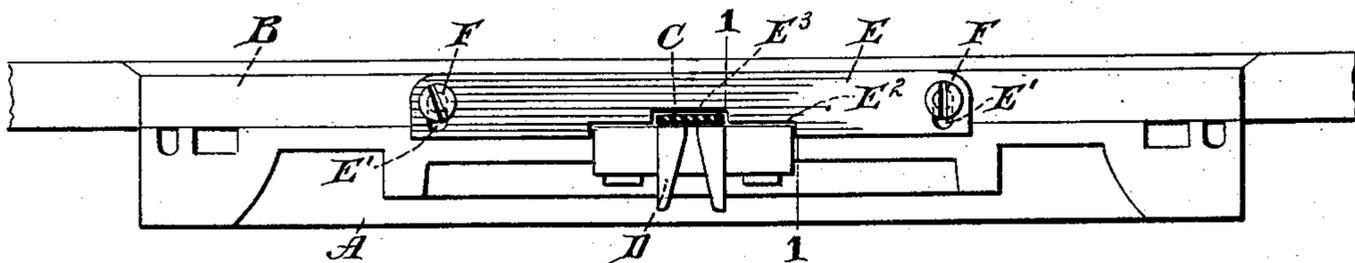


Fig. 3.

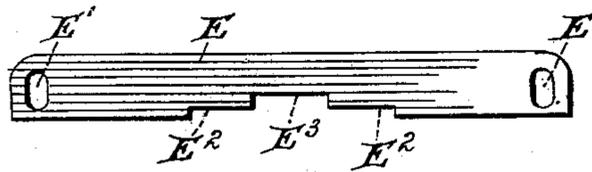
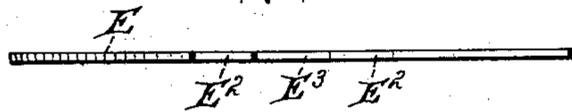


Fig. 4.



WITNESSES:

*John A. Schlebeck*  
*John Lotka*

INVENTOR

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# UNITED STATES PATENT OFFICE.

EDWARD F. KUNATH, OF JERSEY CITY, NEW JERSEY, ASSIGNOR TO  
UNDERWOOD TYPEWRITER COMPANY, OF NEW YORK, N. Y., A  
CORPORATION OF NEW JERSEY.

## RIBBON-GUIDE HOLDER FOR TYPE-WRITERS.

SPECIFICATION forming part of Letters Patent No. 733,975, dated July 21, 1903.

Application filed March 31, 1903. Serial No. 150,372. (No model.)

*To all whom it may concern:*

Be it known that I, EDWARD F. KUNATH, a citizen of the United States, residing in Jersey City, Hudson county, State of New Jersey, have invented certain new and useful Improvements in Ribbon-Guide Holders for Type-Writers, of which the following is a specification.

My invention relates to type-writing machines, and particularly to the ribbon-guide, which is employed adjacent to the printing-point.

The object of my invention is to provide a holder for such a ribbon-guide which will securely hold said guide under normal conditions, yet may be shifted to allow of a ready removal of the ribbon-guide.

The invention will be fully described hereinafter and the features of novelty pointed out in the appended claims.

Reference is to be had to the accompanying drawings, in which—

Figure 1 is a sectional elevation on line 1 1 of Fig. 2 of a portion of a type-writer provided with my improved ribbon-guide holder. Fig. 2 is a plan with the ribbon-guide in section; and Figs. 3 and 4 are a plan and a front elevation, respectively, of the ribbon-guide holder.

A indicates the so-called "segment," which is that part of the type-writer to which the type-bars are pivoted. Adjacent to the rear portion of the segment, at the top thereof, is a stationary member B, and in this member is formed a vertical guideway B' for the ribbon-guide C, provided at its lower end with means, such as an eye C', for connecting it with any approved mechanism by which said guide is given a reciprocating up-and-down motion. The segment A and guide member B practically form part of the type-writer frame and will be referred to under the term of a "support." To the upper portion of the segment is secured the forked type-bar guide D, the upper end of which lies adjacent to the printing-point. The guideway B' is of such width that the guide C, with its eye C' or other connecting device, can be passed and withdrawn upward through the guide-

way. In order, however, to prevent any looseness of the guide C, I provide the ribbon-guide holder E. This holder is secured to the top of the member B of the support, as by screws F, passing through slots E', which extend from front to rear. The holder is guided in its forward or rearward movement by being engaged with the type-bar guide D. (See Fig. 2.) For this purpose the holder has a cut-out portion E<sup>2</sup>, adapted to embrace the type-bar guide. At the center the holder has a notch E<sup>3</sup>, into which the ribbon-guide C fits when the holder is in its forward position, as shown. The holder then embraces the ribbon-guide and forms a guide therefor. When it is desired to remove the ribbon-guide, the screws F are loosened and the holder is moved to the rear, so as to release the ribbon-guide and allow it to be removed by an upward pull. Of course the ribbon-guide is first disconnected from the mechanism which operates it. Thus the ribbon-guide is normally positively held and guided; but when the holder is moved to the rear the ribbon-guide may be readily removed.

Various modifications may be made without departing from the nature of my invention.

The holder E also prevents dirt from working into the guideway B', and this is a very important advantage.

I claim as my invention and desire to secure by Letters Patent—

1. In a type-writer, a support provided with a vertical guideway, a type-bar guide carried by said support, a ribbon-guide movable vertically in said guideway, a ribbon-guide holder movable on said support from front to rear and recessed to embrace the type-bar guide and the ribbon-guide, and means for normally keeping said ribbon-guide holder against the ribbon-guide.

2. In a type-writer, a movable ribbon-guide, a support having a guideway for said ribbon-guide, a ribbon-guide holder movable on the support toward and from the ribbon-guide, and means for normally keeping said holder against the ribbon-guide.

3. In a type-writer, a movable ribbon-guide,

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a support having a guideway for said ribbon-guide, a ribbon-guide holder constructed to embrace the ribbon-guide and movable toward and from the ribbon-guide, and means  
5 for normally keeping said holder against the ribbon-guide.

4. In a type-writer, a movable ribbon-guide, a support having a guideway for said ribbon-guide, a ribbon-guide holder movable trans-  
10 versely of the path of the ribbon-guide, and means for normally keeping the holder against the ribbon-guide.

5. In a type-writer, a support provided with a vertical guideway, a ribbon-guide movable  
15 in said guideway, a type-bar guide arranged

adjacent to the ribbon-guide, a holder recessed to embrace the type-bar guide and having a central notch to receive the ribbon-guide, said holder being mounted at the top  
of the support and movable thereon horizon- 20  
tally toward and from the ribbon-guide, and means for normally keeping said holder against the ribbon-guide.

In testimony whereof I have signed my name to this specification in the presence of 25  
two subscribing witnesses.

EDWARD F. KUNATH.

Witnesses:

JOHN LOTKA,  
EUGENE EBLE.