No. 765,157. PATENTED JULY 19, 1904.

J. ALEXANDER.

TYPE WRITER RIBBON BOX.

APPLICATION FILED JULY 8, 1903.

NO MODEL.

Fig. 1.

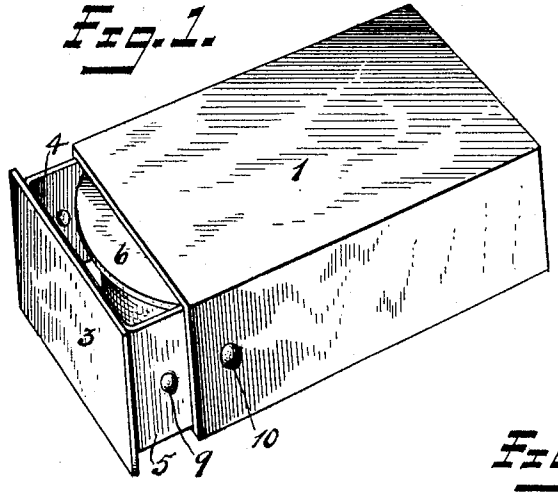


Fig. 2.

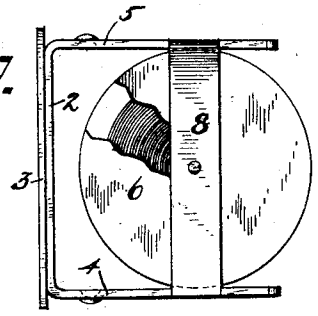


Fig. 3.

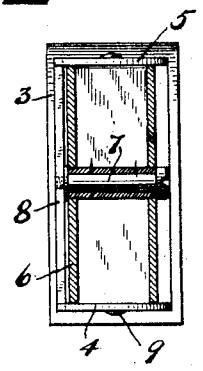


Fig. 4.

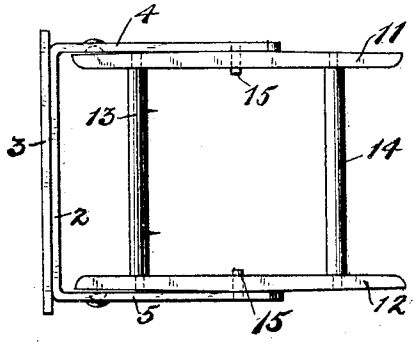
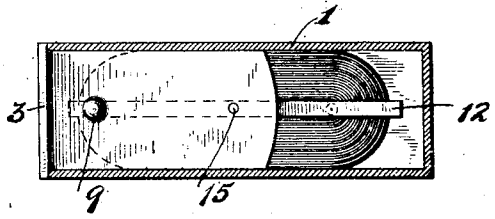


Fig. 5.



Witnesses
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No. 765,157. Patented July 19, 1904.

UNITED STATES PATENT OFFICE.

JESSE ALEXANDER, OF BROOKLYN, NEW YORK, ASSIGNOR TO FREDERICK A. DOWNES, OF NEW YORK, N. Y.

TYPE-WRITER-RIBBON BOX.

SPECIFICATION forming part of Letters Patent No. 765,157, dated July 19, 1904.

Application filed July 8, 1903. Serial No. 164,633. (No model.)

To all whom it may concern:

Be it known that I, JESSE ALEXANDER, a citizen of the United States, residing at Brooklyn, Kings county, New York, have invented certain new and useful Improvements in Type-Writer-Ribbon Boxes, of which the following is a full, clear, and exact description.

My invention relates to a box for packing, shipping, and handling type-writer ribbons.

The object of this invention is to construct the box of a simple form in which a type-writer ribbon may be packed, handled, shipped, or mailed conveniently and from which the ribbon may be readily removed when desired. It consists in forming the box of two parts, one part called the "cover" and the other the "carrier." The cover consists of a rectangular portion having one end closed. The carrier consists of a U-shaped frame, to which is pivoted the ribbon or spool carrying the ribbon. The construction of the cover and carrier is such that ribbons of all ordinary or standard widths, either narrow or wide, may be used, so that the box may in a sense be termed "universal." The construction will be more clearly seen in the accompanying sheet of drawings.

Figure 1 is a perspective view of a box embodying the improvements of my invention, the carrier being partially withdrawn from the cover. Fig. 2 is a bottom plan view of the carrier with a circular bobbin or spool carried thereby. Fig. 3 is an end elevation of the same, but with the bobbin or spool shown in cross-section. Fig. 4 is a plan view of the carrier of the same general construction, but having an elongated bobbin or reel with its axis arranged at right angles to the axis of the form shown in Fig. 2. Fig. 5 is a side elevation of the same and showing the cover in cross-section.

1 is the cover, and 2 is a carrier-frame. This carrier-frame is bent into a U-shaped form and fits into the interior of the cover. 3 is a front which is secured to the frame 2, but approximately of the same dimensions as the end of the cover, so that its edges may abut against the end of the cover, and thus close the box tightly. 4 and 5 are the two side arms of the carrier-frame. 6 is a bobbin or spool having the pivot 7. This pivot in this form is a screw which takes into the cross-bar 8, the latter being in turn carried by the arms 4 and 5. The hub of the spool has prongs for attaching the ribbon. The side arms 4 and 5 are in the form of springs, which rest against the circumferences of the top and bottom of the spool 6, so as to act as a brake on the spool when the ribbon is being wound or unwound therefrom. The side arms 4 and 5 are preferably made of such a length as to permit the edge of the bobbin to project beyond for convenience in handling the same. By making the front of the box 3 of the size of the end of the cover the carrier may be inserted into the cover, and the ribbon-spool will not, however, reach quite to the end thereof, thus preventing accidents which might otherwise occur to the structure. The sides of the carrier-frame 4 and 5 are indented, as shown at 9, and the sides of the cover correspondingly indented, as at 10, so as to act as a gentle spring-retaining means for holding the carrier in position in the cover.

In Fig. 4 I have shown the same carrier with a different bobbin or reel mounted therein. This reel consists of side bars 11 and 12, connected together by the end bars 13 and 14, about which the ribbon is wound. The bar 13 has prongs for attaching the ribbon. This form is known as the "standard wide ribbon," whereas the spool of Figs. 1 to 3, inclusive, is adapted to carry standard narrow ribbon. This reel is mounted on the pivots 15, which are carried by the side frames 4 and 5. As in the carrier of Fig. 2, the side arms 4 and 5 are formed of springs to exert frictional resistance to the side bars 11 and 12 on the reel. Of course when this form of reel shown in Figs. 4 and 5 is used, the connecting-bar 8 (shown in Figs. 2 and 3) is omitted, so that the reel may turn freely upon it axis. The general construction will therefore be seen to be the same in both forms, except that in Figs. 1 to 3, inclusive, the pivot is a vertical one and is carried indirectly by the side frames 4 and 5, the bar 8 being interposed only as a bearing, whereas in Figs. 4 and 5 the pivots

are horizontal and carried directly by the side frames 4 and 5.

The advantages of this construction are particularly simplicity of construction and universal utility for all forms of type-writer ribbons. By employing such a construction the manufacturer may pack, ship, and sell ribbons of all forms in the same box construction, the only parts of different construction required for the narrow and wide ribbons being the cross-bar 8, the pivots 15, and the requisite bobbins, spools, or reels.

What I claim is—

1. A type-writer-ribbon box including a cover and a sliding carrier, said cover being open at one end but inclosing and surrounding said carrier on the top, bottom and sides and the carrier comprising a U-shaped frame adapted to fit within the cover, a front of substantially the same size as the end of the cover, and a ribbon-bobbin pivotally carried by the frame.

2. A type-writer-ribbon box including a cover and a sliding carrier, said cover having one end open, said carrier comprising a frame open on the top and bottom and having side arms guided horizontally and adapted to fit within the cover, a ribbon-bobbin pivotally mounted in said carrier, and means for retaining the carrier in position in the cover.

3. A type-writer-ribbon box including a cover and a sliding carrier, said cover being open at one end and said carrier comprising a U-shaped frame open at the top and bottom and having side arms adapted to fit within the cover, the end of said carrier overlapping the edges of and being adapted to close the open end of the cover and a ribbon-bobbin pivotally mounted in said carrier.

JESSE ALEXANDER.

Witnesses:
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