

No. 730,426.

PATENTED JUNE 9, 1903.

K. R. WILLIAMS.

COPY HOLDER.

APPLICATION FILED NOV. 6, 1902.

NO MODEL.

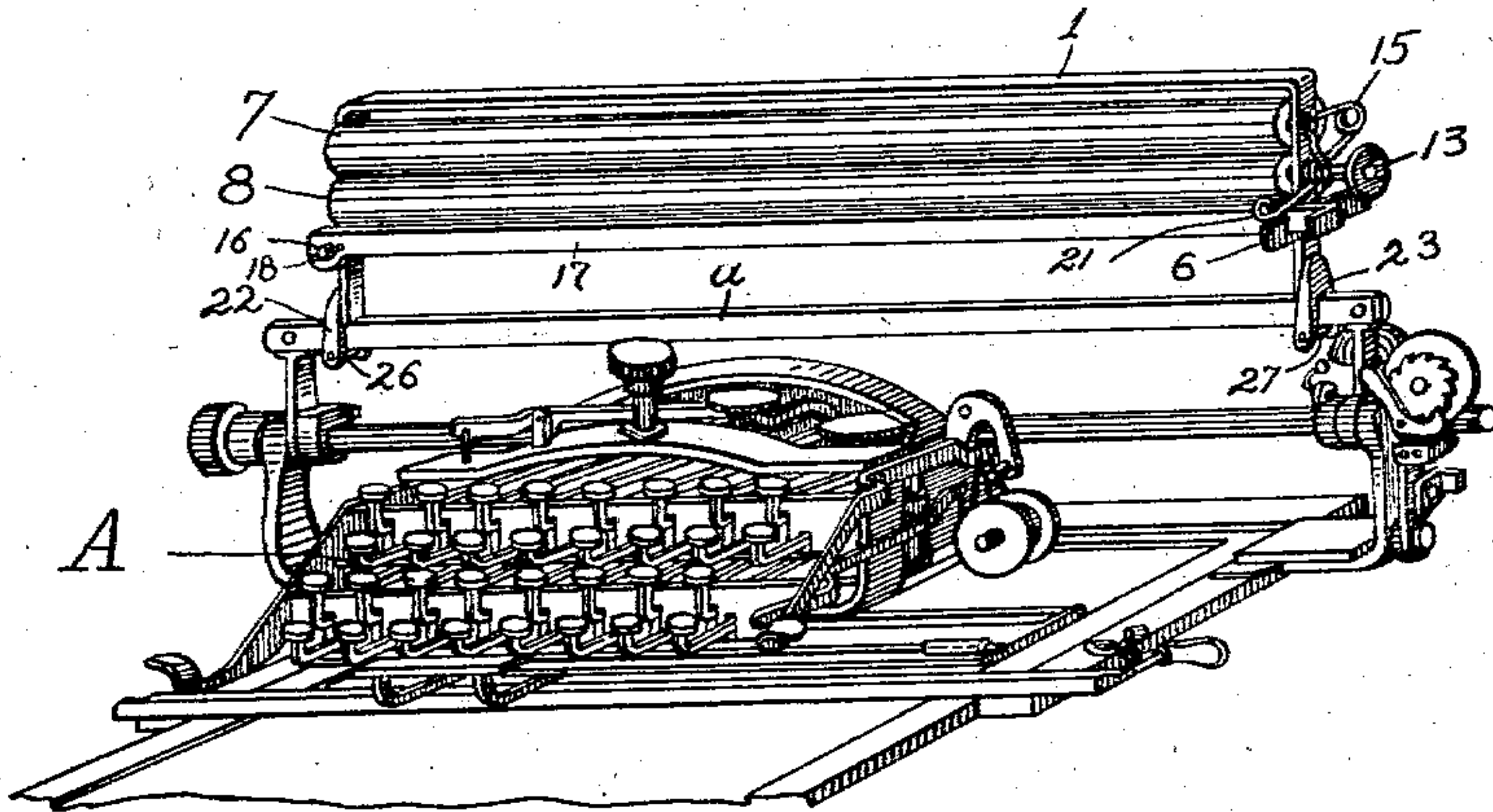


Fig. 1.

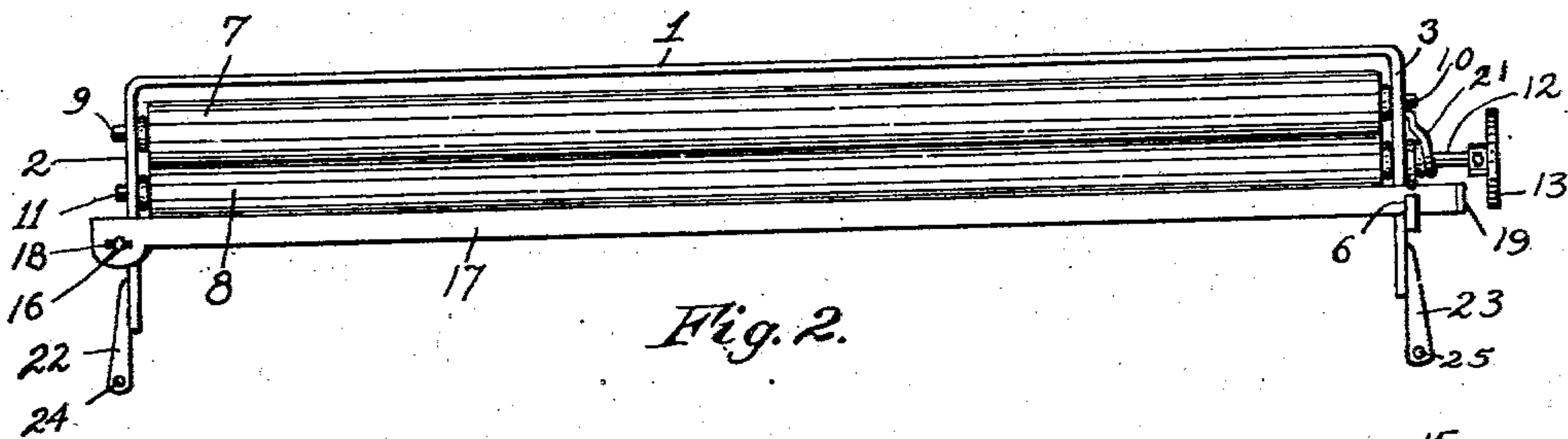


Fig. 2.

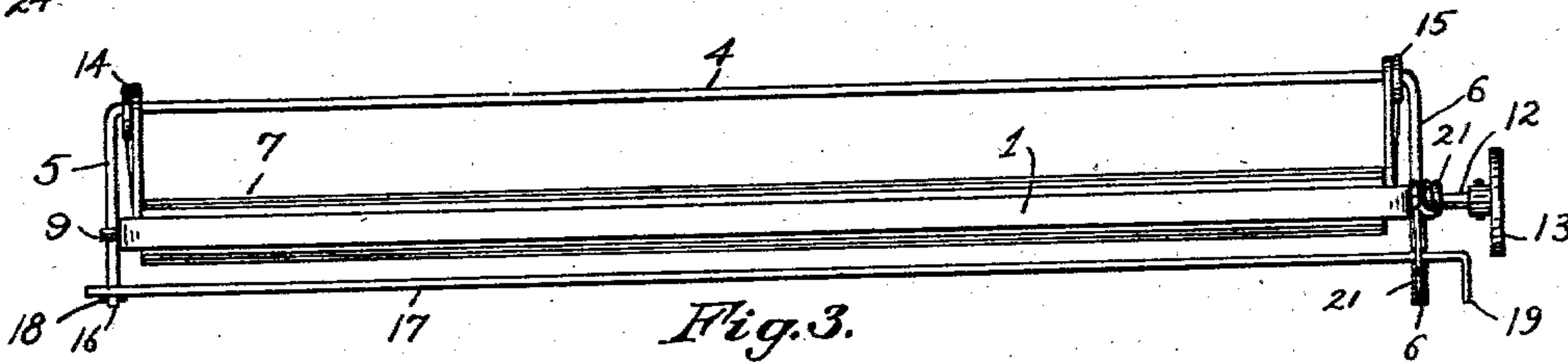


Fig. 3.

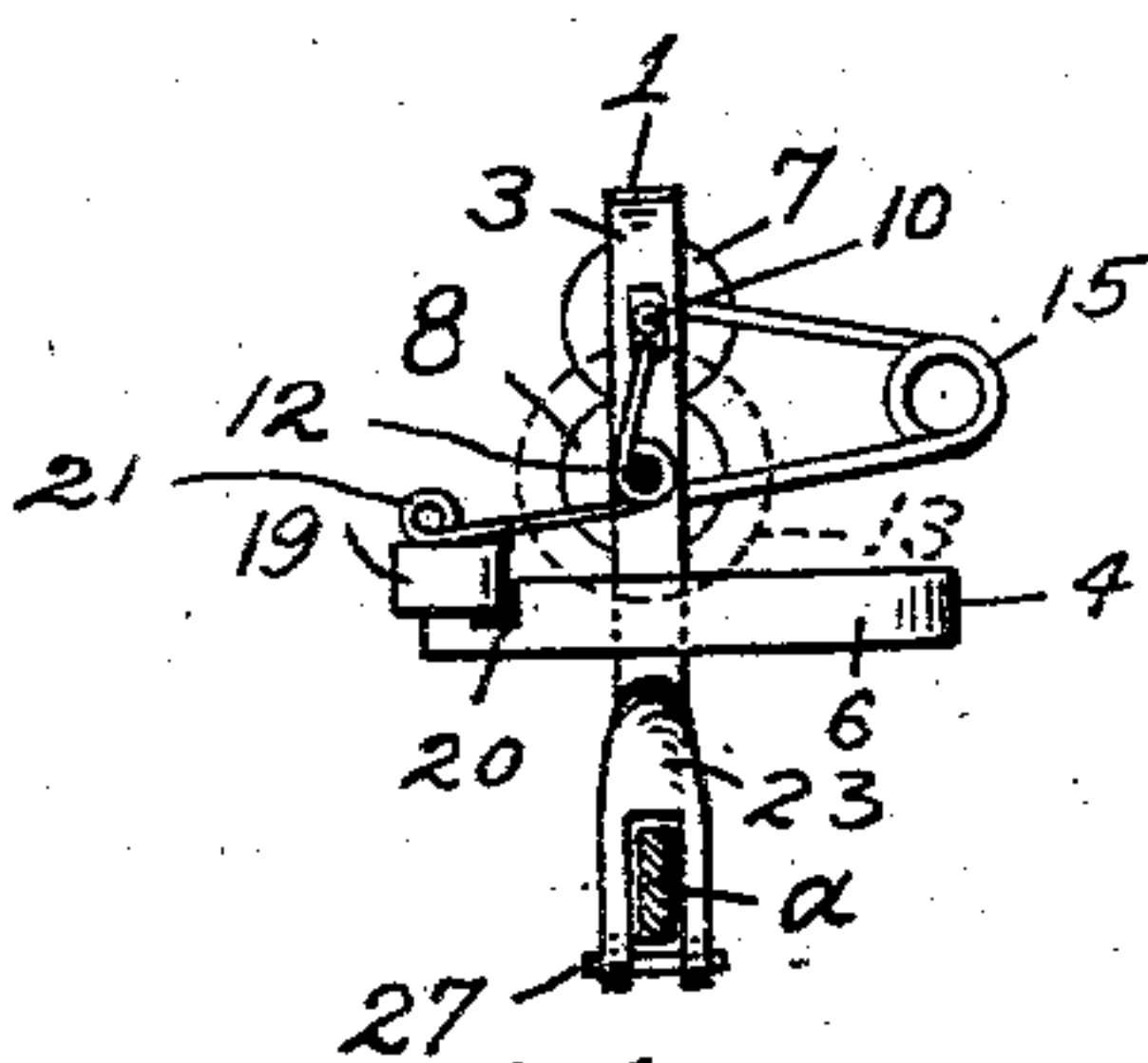


Fig. 4.

Witnesses:
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Inventor:
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UNITED STATES PATENT OFFICE.

KING R. WILLIAMS, OF RICHMOND, INDIANA.

COPY-HOLDER.

SPECIFICATION forming part of Letters Patent No. 730,426, dated June 9, 1903.

Application filed November 6, 1902. Serial No. 130,248. (No model.)

To all whom it may concern:

Be it known that I, KING R. WILLIAMS, a citizen of the United States, residing in the city of Richmond, in the county of Wayne and State of Indiana, have invented new and useful Improvements in Copy-Holders; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This present invention relates to improvements in construction and adaptation of copy-holders designed, primarily, for use in connection with "book type-writers" or the like, yet equally applicable and advantageous in connection with ordinary type-writers of any well-known construction.

The object of my present invention, broadly speaking, is to provide a copy-holder adapted to be attached to and used in connection with book type-writers, to be so located that the copy-line will be on a level with the eye and directly in front of the operator, to provide means for progressing the copy line by line with a minimum of time and labor devoted thereto, and to generally improve the construction of devices of this character.

Another object is to provide a copy-holder which will be simple in character, compact in form, easily operated and maintained, and by the use of which the copy may be read and transposed with certainty and precision.

Another object is to provide a copy-holder adapted to be used in connection with type-writers of any construction, easily operated and maintained, and to facilitate and minimize the labor of the operator.

Still another object is to effect a new and novel construction and combination of the frame, means for attaching it to a type-writer, the contacting adjustable rollers, means for advancing the copy, and means for retaining the copy-line at the precise point of sight; and still another object is the provision of an article of manufacture—a copy-holder—which can be manufactured and sold at a comparatively low price.

Other objects and advantages of my invention will appear from the following specification and from the drawings forming a part thereof.

The invention consists in a copy-holder em-

bodimenting certain new and useful and novel features and details of construction and relative disposition of parts, substantially as hereinafter particularly set forth, illustrated in the drawings, and incorporated in the claims hereunto appended.

In detail the invention relates to copy-holders, substantially as shown in the accompanying drawings, in which—

Figure 1 is a view in perspective of my entire invention attached to a book type-writer, showing the manner of attachment and the relative position with reference thereto. Fig. 2 shows my entire invention in elevation detached. Fig. 3 shows a vertical top plan of my entire invention, and Fig. 4 shows an end elevation of the operating end of my invention.

Similar indices refer to similar parts throughout the several views.

Referring now to the drawings, the letter A denotes a book type-writer, which is provided with a stationary horizontal cross-bar α , secured at its upper rear portion and is part thereof. To the bar α my invention may be secured, as will hereinafter be fully explained.

The frame of my invention consists of a horizontal bar 1, with integral end portions 2 and 3 bent downward at right angles thereto and parallel to each other.

4 represents a horizontal bar located in the rear of and below the bar 1, with integral end portions 5 and 6 bent forward at right angles thereto and parallel to each other. The end portions 5 and 6 extend forward horizontally, contacting with the end portions 2 and 3 at right angles and extending forward thereof. At the point of contact the end portions 2 and 3 are securely fastened together, thus forming a rigid framework.

The numeral 7 denotes the upper roller and 8 the lower roller, which are of equal length and slightly shorter than the bar 1. Each end of each roller is provided with an axle or pivot, represented by numerals 9, 10, 11, and 12, which extend out from the centers of the ends of the rollers, as shown. The axle 12 extends out farther than do the other axles, and to this outer extension is secured a knurled hand knob or wheel 13. In each of the end portions 2 and 3 are formed round pivot-holes adapted to receive the axles 11 and 12, respec-

tively, and above said holes are formed vertical slots adapted to receive the axles 9 and 10, respectively. The location of said slots is with reference to said holes such that when the rollers 7 and 8 are placed in position the roller 7 will be directly above and normally in contact with the roller 8, or the roller 7 can be moved slightly upward away from the roller 8 by reason of the axles 9 and 10 being journaled in said vertical slots.

The rollers 7 and 8 are retained normally in contact by means of the two resilient springs 14 and 15. Said springs 14 and 15 are V-shaped, with the vortexes thereof extending rearward with one or more circumvolutions of the spring formed at the vortexes to give more flexibility to the arms of the spring. Each of the springs 14 and 15 is formed with two forwardly-extending diverging arms. In the end of each of said arms is formed an interstice through which may pass the respective axle of the roller. The upper arms of the springs 14 and 15 engage the axles of the roller 7, and the lower arms of the springs 14 and 15 engage the axles of the roller 8, all of said engagements being made between the ends of the rollers 7 and 8 and the members 2 and 3.

On the forward end of the member 5 is formed a pivot 16, and in the upper edge of the forward end of the member 6 is formed a notch 20.

The numeral 17 represents a space-bar with a hole therethrough near the left-hand end to receive the pivot 16, on which it is secured by the key 18. The right-hand end of the bar 17 is turned forward at right angles thereto, forming a handhold 19, and the right-hand end of the bar 17 is adapted to rest in the notch 20, as shown.

In order to retain the end of the bar 17 in the notch against accidental displacement, I provide a resilient spring 21, the upper stationary end of which is secured in the slot in which the axle 12 operates, passing downward on the outer side of the member 3 with one or more circumvolutions thereof around the axle 12 between the member 3 and the knob 13, then extending forward across the bar 17 at a point above the notch 20 and terminating in a knob or the like, substantially as shown.

Secured to the lower ends of the members 2 and 3 below which they extend are the securing members 22 and 23, respectively. Extending up from the bottom centrally into each of the members 22 and 23 are slots whose width is sufficient to receive the bar *a*, below which the points extend when in position. Extending through the points are the openings 24 and 25, which are at right angles to and crossing said slots, respectively, in the members 22 and 23.

26 and 27 represent keys inserted in the holes 24 and 25, crossing underneath the bar *a* by which the copy-holder may be secured to the bar *a* of the type-writer A, as shown.

It will now be apparent that a sheet of paper containing matter to be copied may be inserted between the rollers 7 and 8 by turning the knob 13. The bar 17 being in the position shown by the dotted lines in Fig. 2 is then brought down under the outer end of the spring 21, then lifted up and inserted in the notch 20. The knob 13 is then turned until the line on the copy is immediately above the upper edge of the bar 17. That line is then copied, when the knob 13 is again turned to bring another line into view, and so on until all the matter is copied. It will be observed that in the manner of attachment shown the copy will have no horizontal movement, being independent of the traveling carriage of the type-writer.

A bar similar to the bar *a* may be secured to any type-writer by means of perpendicular posts extending up from the base of the machine to support such a bar.

From the above description, taken in connection with the accompanying drawings, it will be seen that I have produced an improved copy-holder embodying the objects elsewhere referred to in this specification.

While I have illustrated and described the best means now known to me for carrying out the objects of my invention, I wish to be understood that I do not restrict myself to the exact details of construction shown, but hold that any slight changes or variations in such details as would suggest themselves to the ordinary mechanic would clearly fall within the limit and scope of my invention.

Having now fully shown and described my invention and the best mode for its construction to me known at this time, what I claim as new, and desire to secure by Letters Patent of the United States, is—

1. In a copy-holder the combination, of a frame consisting of two bars with their ends bent at right angles to their body portions and crossing each other, a pair of rollers mounted one above the other in said frame, a pair of V-shaped resilient springs mounted to the axles of said rollers and adapted to normally keep said rollers in contact with each other, a space-bar pivoted at one end and extending across in front of said frame, a spring for retaining the free end of the space-bar in position, a pair of securing members extending down from either end of the frame with slots therein adapted to receive a horizontal bar, and means for securing said bar in said slots, all substantially as shown and described, for the purposes set forth.

2. In a copy-holder the combination, of a frame, a pair of contacting horizontal rollers mounted in said frame, a turning-knob without the frame secured to one of the axles of the rollers, means for allowing the rollers to be separated yet held normally in contact, a space-bar extending from end to end of the frame in front of and a slight distance from the lower roller, a pivotal connection for the space-bar at one end of the frame and means

for securing the opposite end of the space-bar at the other end of the frame, and means for attaching the frame in an upright position to a horizontal bar, all substantially as shown and described.

3. In a copy-holder the combination, of the two horizontal members 1 and 4 their end portions being bent at right angles to their body portions, the end portions crossing each other at each end and secured together at the point of contact, the end members 2 and 3 extending downward and having secured to their lower ends the members 22 and 23, the members 22 and 23 having slots in their lower portions adapted to pass over a stationary bar, holes 24 and 25 through the points of the members at right angles to said slots and passing therethrough, keys 26 and 27 inserted in the holes 24 and 25, contacting rollers 7 and 8 mounted in the framework, a knob 13 for turning said rollers, a bar 17 pivoted at one end to the pivot 16, a spring 21 for retaining the bar 17 in position at the other end, and springs 14 and 15 for retaining the rollers 7 and 8 in contact, all substantially as shown and described.

4. A copy-holder consisting of a framework having rollers mounted therein, means for operating the rollers, a pivotal bar extending across the framework in front of the rollers,

and means for securing the copy-holder in an upright position to a horizontal bar, all substantially as shown and described.

5. In a copy-holder, a frame, horizontal contacting rollers mounted in the frame, forked projections extending down from each end of the frame adapted to engage on a substantially square bar, and means for securing same in that position, substantially as shown and described.

6. In a copy-holder, a horizontal frame, two contacting rollers mounted in the frame, means for normally retaining the rollers in contact with each other, means for revolving the rollers, a guide-bar extending across in front of one of the rollers, and means for securing all in position on a bar extending horizontally across the rear portion of type-writer.

7. The combination with a type-writer and a horizontal bar extending across in the rear thereof, of a copy-holder secured to said bar and extending upward therefrom, substantially as shown and described.

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

KING R. WILLIAMS.

Witnesses:

R. W. RANDLE,
R. E. RANDLE.