

No. 700,815.

Patented May 27, 1902.

R. H. PIPER.

DEVICE FOR SUPPORTING AND DELIVERING PAPER FOR WRAPPING OR
BINDING PURPOSES.

(Application filed Aug. 7, 1901.)

(No Model.)

2 Sheets—Sheet 1.

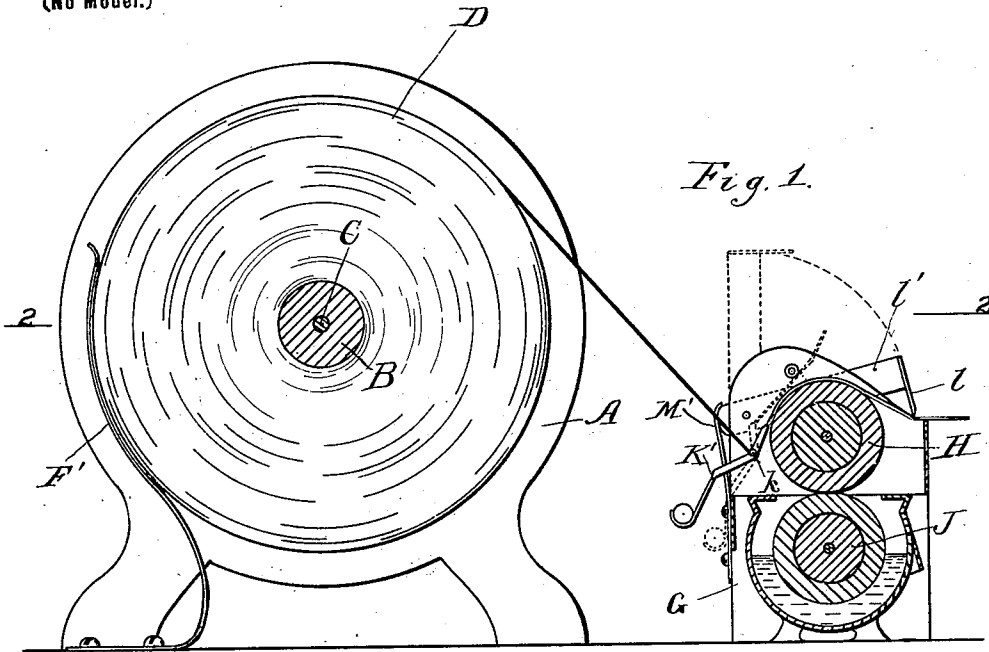
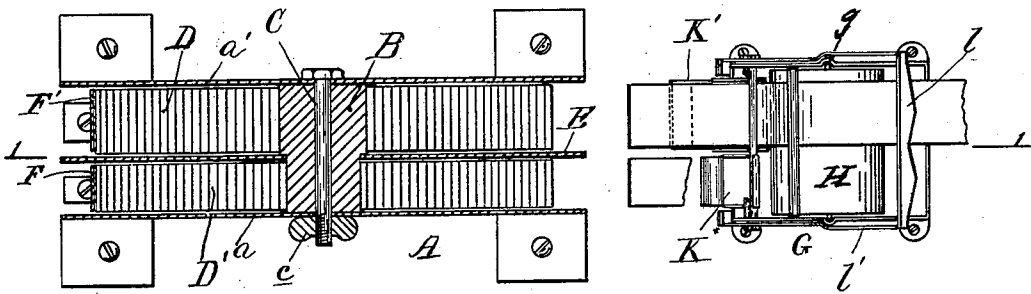


Fig. 2.



WITNESSES

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2 Sheets—Sheet 2.

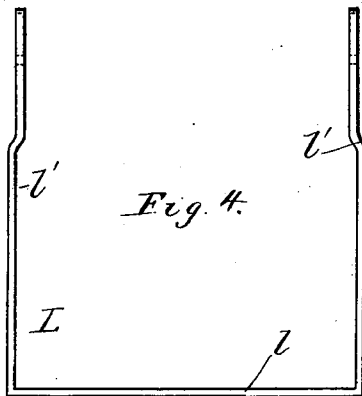
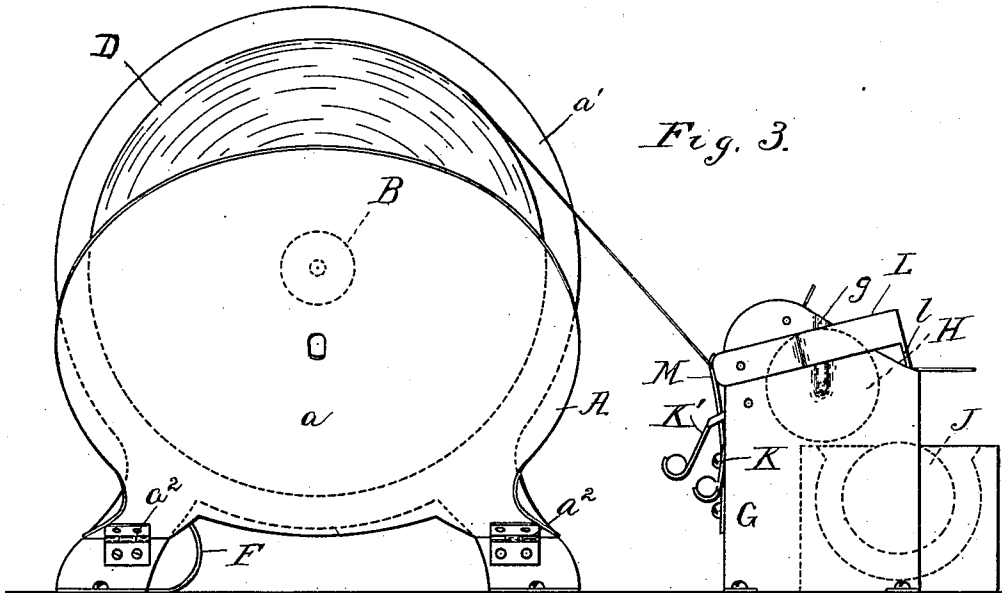


Fig. 4.

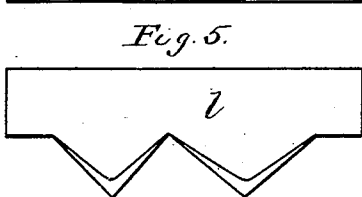


Fig. 5.

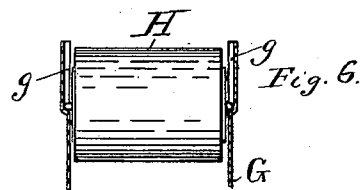


Fig. 6.

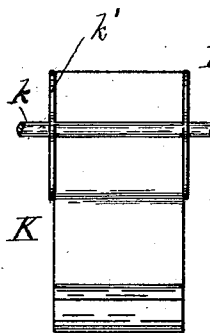


Fig. 7.

Fig. 8.

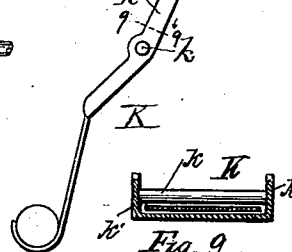


Fig. 9.

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ROBERT H. PIPER, OF CHELSEA, MASSACHUSETTS, ASSIGNOR, BY DIRECT AND MESNE ASSIGNMENTS, TO NATIONAL SPECIALTY MANUFACTURING CO., OF JERSEY CITY, NEW JERSEY.

DEVICE FOR SUPPORTING AND DELIVERING PAPER FOR WRAPPING OR BINDING PURPOSES.

SPECIFICATION forming part of Letters Patent No. 700,815, dated May 27, 1902.

Application filed August 7, 1901. Serial No. 71,185. (No model.)

To all whom it may concern:

Be it known that I, ROBERT H. PIPER, a citizen of the United States, residing at Chelsea, in the county of Suffolk and State of Massachusetts, have invented a new and useful Device for Supporting and Delivering Paper for Wrapping or Binding Purposes, of which the following is a specification.

My invention relates to an apparatus or device for supporting and delivering paper for wrapping or binding purposes, wherein a strip of gummed paper is fed to devices for rapidly moistening the same and cutting it into the required lengths for the binding operation; and it consists in certain improvements in the construction and arrangement of the parts of such apparatus, particularly applicable to devices embodying the invention described in my application for Letters Patent No. 54,040, filed April 1, 1901.

In the drawings, Figure 1 is a central longitudinal section of my improved apparatus, taken on the line 1 1 of Fig. 2. Fig. 2 is a plan view, partly in section, taken on line 2 2 of Fig. 1. Fig. 3 is a side elevation. Figs. 4 and 5 are details showing top and end views of the cutter-blade. Fig. 6 is a detail illustrating the preferred method of seating the moistening-roll; and Figs. 7 and 8 are front and side views, respectively, of the paper-guide. Fig. 9 is a sectional view taken on the line 9 9 of Fig. 8.

In the drawings, A represents the frame of a paper-roll holder, comprising sides $a a'$ and a central core B for carrying a plurality of paper-rolls, the parts being secured together by a bolt C passing centrally through the core and having on one end a thumb-nut c . The sides are preferably fixedly attached to the base upon which the machine rests, and to permit the rolls to be inserted or removed the side a is hinged near its base, as at a^2 , so that when the nut c is removed from the bolt the side may be swung outwardly, as shown in Fig. 3. The roll-holder is arranged to receive a plurality of paper-rolls $D D'$ of various widths, as shown in Fig. 2, the core B being stepped to accommodate the different-sized rolls. To separate the rolls, I provide

suitable separating-plates E, loosely mounted on the core.

F F' represent flat springs secured to the base and bearing at their free ends against the paper-rolls to serve as brakes to hold the paper of the rolls at all times under proper tension and prevent overrunning of the same.

In front of the roll-holder herein described is arranged the moistening device, consisting of a frame G, carrying a roller H and paper feeding and cutting mechanism, and a reservoir containing a second roller J. The reservoir is preferably of glass and may be removed for purposes of cleaning and filling, the roller J therein being preferably removably seated in bearings formed in the sides thereof. The roller H is mounted in the manner shown in Figs. 3 and 6, the ends of its shaft engaging vertical guideways g , formed in the sides of the frame G, whereby the roller may move freely in a vertical direction. By this arrangement the roller H is permitted to adjust itself to any irregularity of contour of the lower roller J and maintain a light but constant pressure on the same.

It will be observed that the vertical guideways g terminate sufficiently far above the base upon which the moistening device is supported and are so constructed as to prevent the upper roller H from falling when the water-reservoir and the roller J, mounted therein, are removed.

K K' are paper-feed guides each consisting of a plate pivotally hung upon a transverse rod k , journaled in the frame G, said plates being provided with a suitable balance-weight for maintaining them normally in the position shown in dotted lines in Fig. 1. The forward or delivery end of each of said plates is provided with flanges k' , which serve to preferably guide and direct the paper as it is fed therethrough.

L is a knife or cutter having a blade l extending transversely of the machine and rearwardly-extending arms l' pivoted to the frame G near its rear end. The blade l is preferably provided with edged points corresponding in number to the number of paper-rolls employed. Springs M M', bearing upon the

rear ends of the arms l' , serve to normally hold the blade upright in inoperative position, as shown in dotted lines in Fig. 1.

The operation of the device is as follows:

5 The reservoir is partially filled with water and placed in position in the frame G so that rollers H and J contact. The paper is then drawn from the rolls and passed beneath the rod k and forward between the flanges k' of
 10 the guide K. The balancing-weight holds the delivery end of the guide away from the roll H, so that the paper is kept out of contact therewith. If now the gummed paper is to be applied to a package, the projecting
 15 end of the paper is drawn forward, bringing it into contact with the roller H. The roller being rotated as the paper is drawn over its periphery rotates the lower roller J, which feeds water to the upper roller, thereby moistening the gummed side of the paper. The
 20 paper strip being applied to a package adheres thereto, doing away with the necessity of tying the same with cord or the like. When the package is sealed the strip is severed by depressing the knife, its blade cutting the paper from the center to the edges
 25 with a shearing action and the spring and weight, respectively, restoring the knife and feeding-guide to their normal or inoperative
 30 positions.

While I have shown for purposes of illustration my invention as embodied in an ap-

paratus carrying two paper-rolls, it is apparent that a greater number of rolls might be employed.

Having described my invention, what I claim, and desire to secure by Letters Patent, is—

1. In an apparatus for supporting and delivering paper for wrapping or binding purposes, the combination with the holder for a roll of paper, and a moistening device, of a feed-guide for directing the paper to the moistening device comprising a swinging guide-plate having side flanges near its delivery end, a transverse rod upon which said plate is suspended, and a counterweight, substantially as set forth.

2. In an apparatus for supporting paper for wrapping or binding purposes arranged to deliver independent strips of paper, the combination of the roll-holders for the strips of paper, a moistening device, a cutter-knife, a plurality of independent movable paper-feed guides, one for each strip of paper, arranged on a single shaft, and independent controlling means, one for each paper-guide arranged to normally hold the delivery end of the guide away from the moistening device, substantially as set forth.

ROBERT H. PIPER.

Witnesses:

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