No. 751,920. PATENTED FEB. 9, 1904.

R. T. JONES.

PAPER ROLL HOLDER AND CUTTER.

APPLICATION FILED DEC. 3, 1903.

NO MODEL.

FIG. 1.

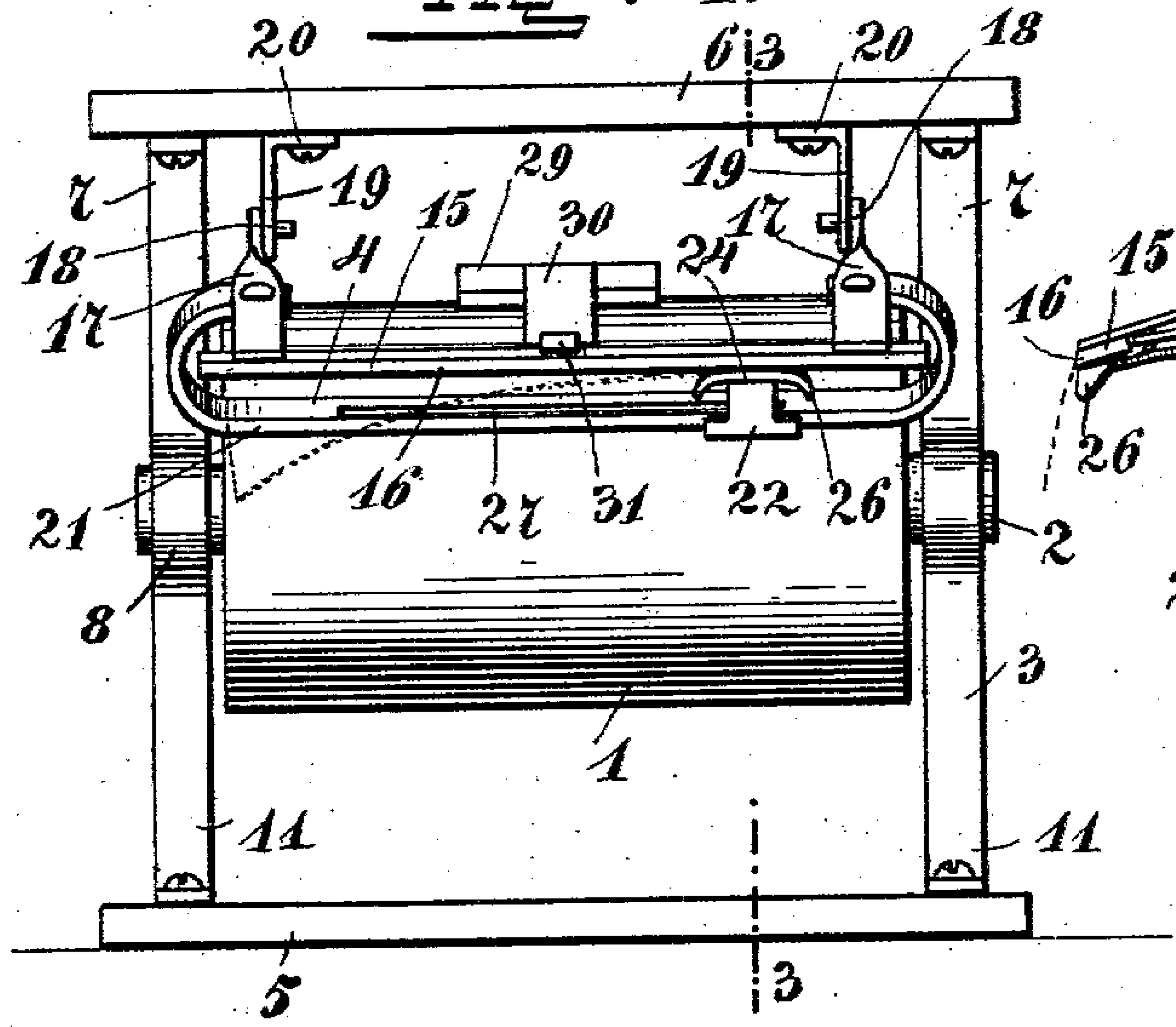


FIG. 2.

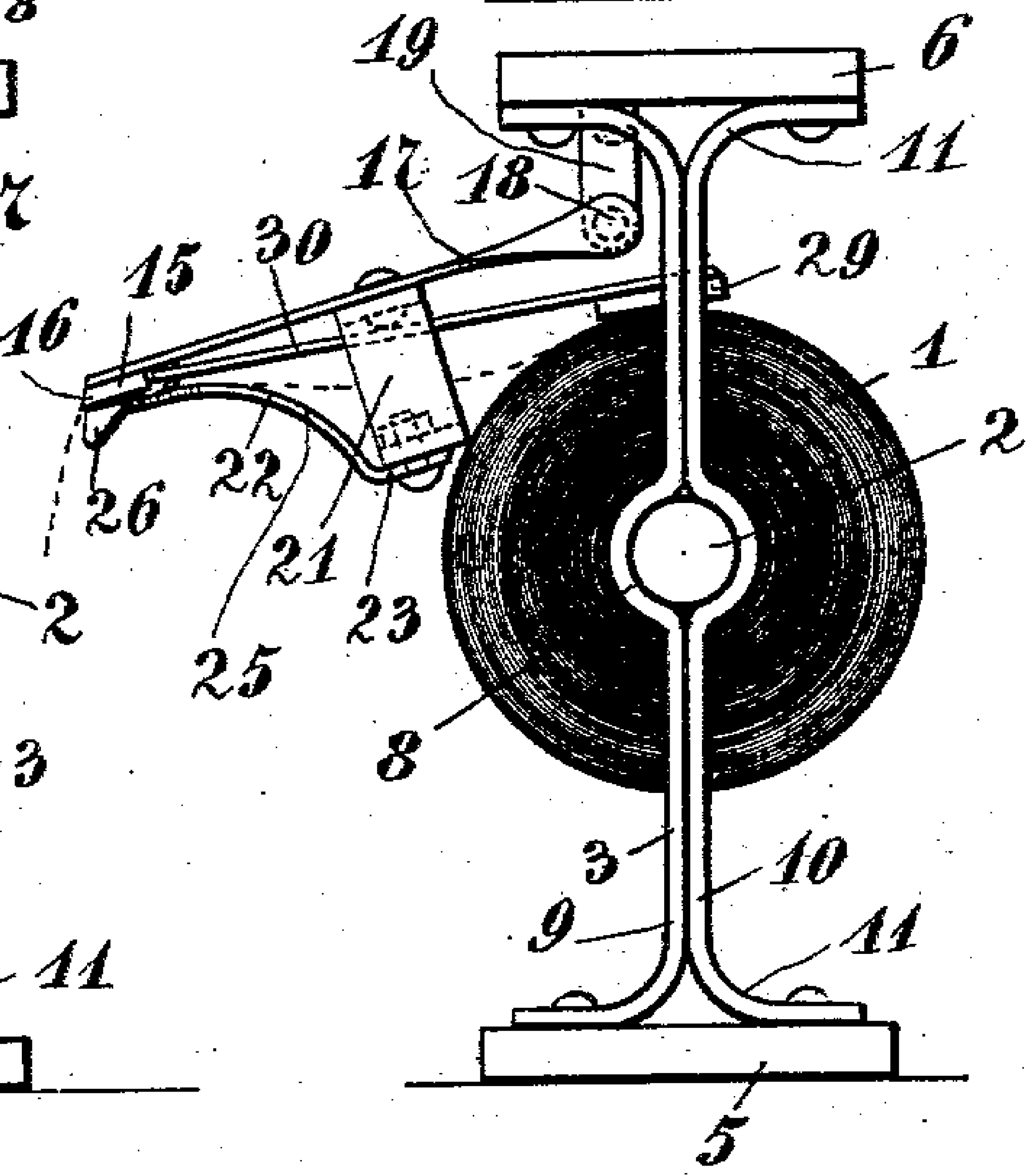


FIG. 3.

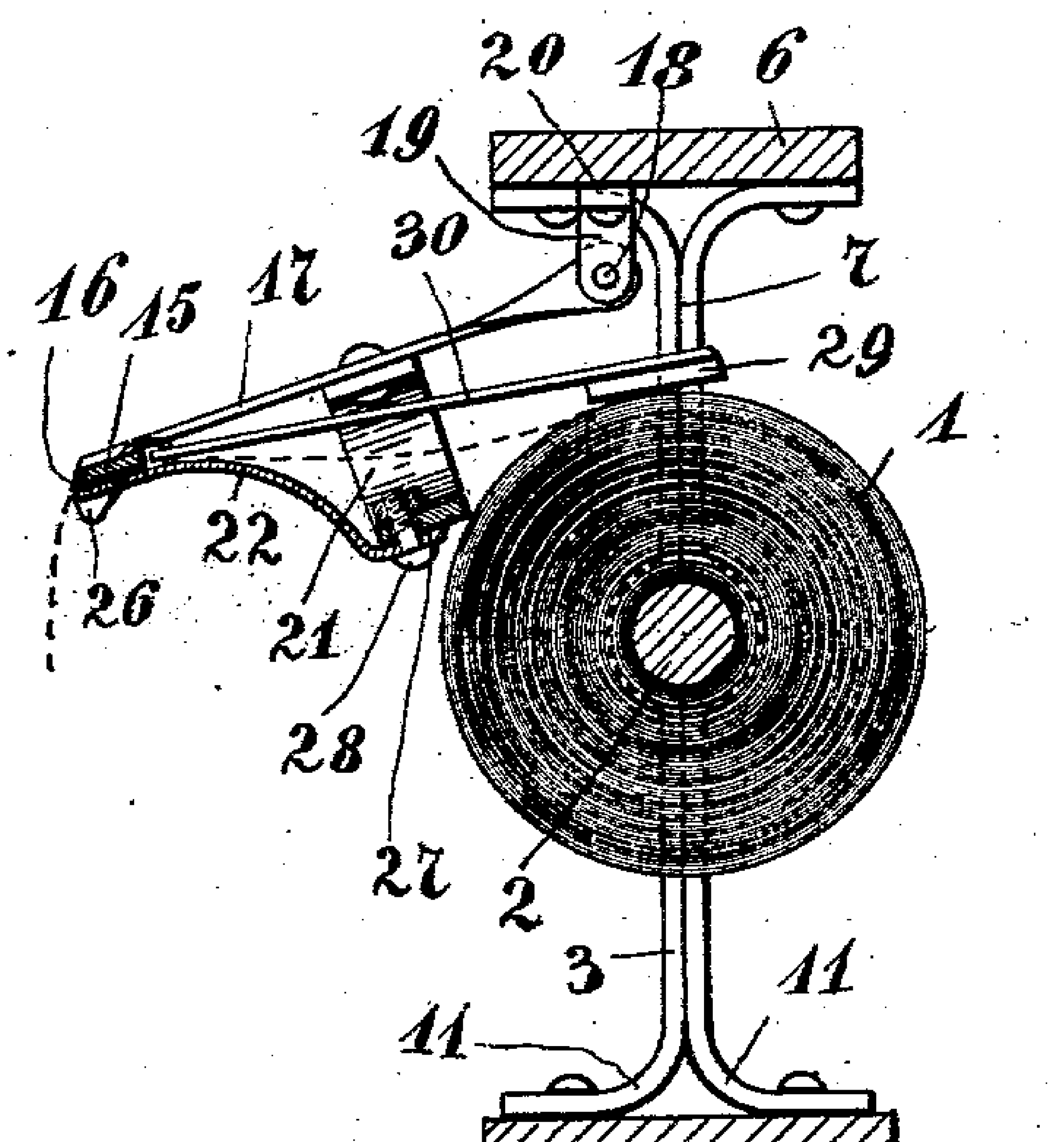
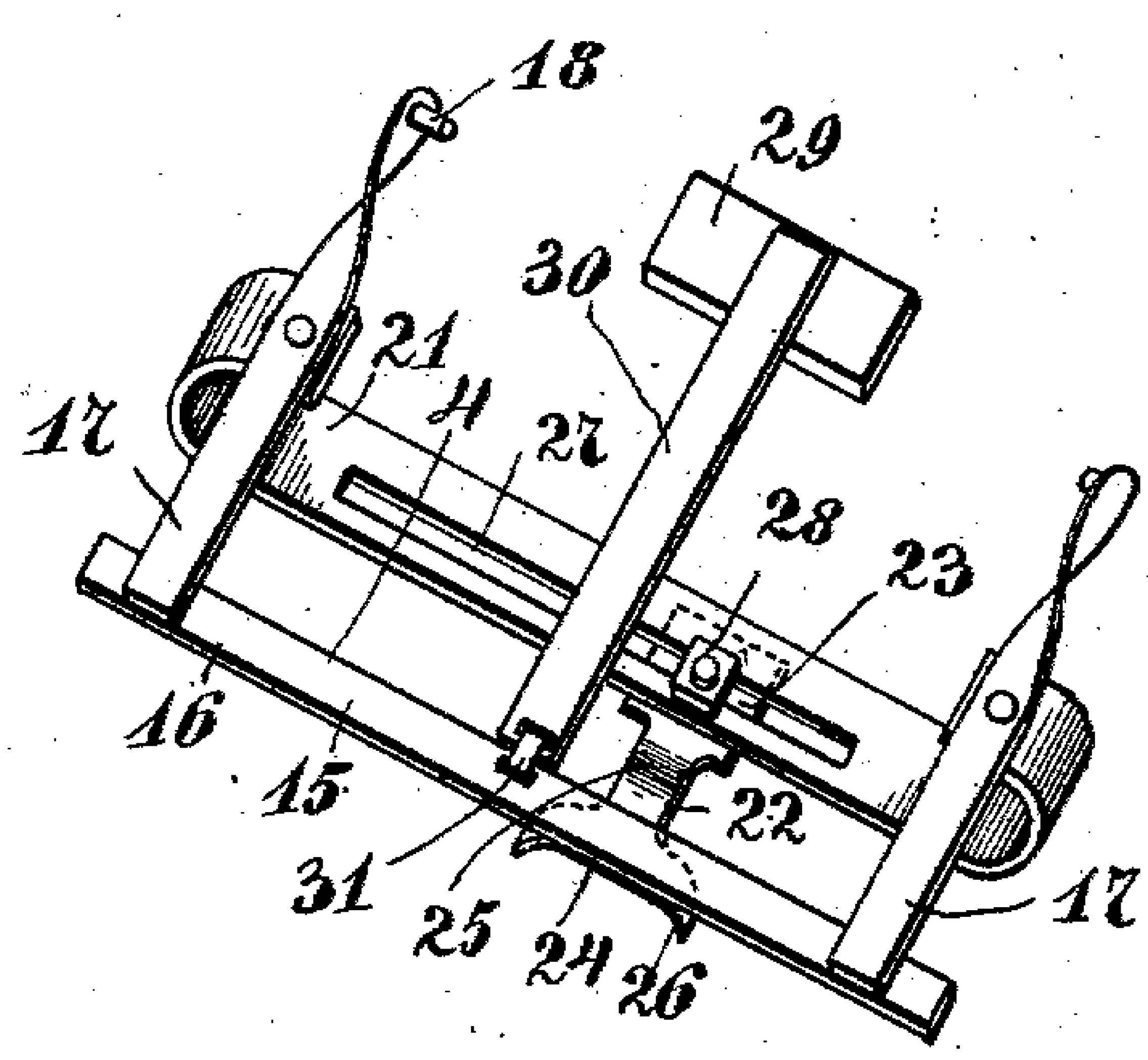


FIG. 4.



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No. 751,920. Patented February 9, 1904.

UNITED STATES PATENT OFFICE.

RICHARD T. JONES, OF BALTIMORE, MARYLAND.

PAPER-ROLL HOLDER AND CUTTER.

SPECIFICATION forming part of Letters Patent No. 751,920, dated February 9, 1904.

Application filed December 3, 1903. Serial No. 183,606. (No model.)

To all whom it may concern:

Be it known that I, RICHARD T. JONES, a citizen of the United States, residing at Baltimore, State of Maryland, have invented certain new and useful Improvements in Paper-Roll Holders and Cutters; and I do 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 invention relates to serving apparatus, and more particularly to improvements in paper-roll holders and in cutters therefor.

The object of my invention is to improve and simplify the construction and operation of machines of this character, and thereby render them more efficient and durable in use and less expensive to manufacture.

With this and other objects in view the invention consists of certain novel features of construction, combination, and arrangement of parts, as will be more fully described, and particularly pointed out in the appended claims.

In the accompanying drawings, Figure 1 is a front elevation of a machine embodying my improvement. Fig. 2 is an end elevation of the same. Fig. 3 is a vertical transverse section taken on the line 3 3 of Fig. 1. Fig. 4 is a perspective view of the cutting device removed from the roll-holder.

Referring to the drawings by numerals, 1 designates a continuous web of paper rolled upon a roller 2, journaled to rotate in a holder 3, upon which my improved cutting device 4 is mounted. Said roll-holder 3 may be of any suitable construction; but it preferably comprises a base 5, an upper bar or top piece 6, and two vertical pieces or standards 7, which connect said base and upper bar and in which bearings 8 are provided to receive the ends or journals of the roller 2. As shown in the drawings, said end pieces or standards are each composed of two strips of metal 9 and 10, secured together longitudinally, with a portion intermediate their ends bent or curved outwardly in opposite directions to form the bearing 8 and with their ends bent outwardly at right angles to form attaching-feet 11, which are screwed or otherwise secured to the base 5 and upper bar 6.

My improved cutting device 4 is pivotally hung from the holder and rests upon the roll, so that as the latter decreases in size the device will lower and be maintained at a fixed distance from the roll. The said cutting device comprises a straight longitudinally-disposed cutter-bar 15, formed with a cutting edge 16 and having secured adjacent to its ends arms 17, the inner ends of which are provided with pivot-studs or lugs 18, which are adapted to enter apertures formed in ears 19, depending from the under side of the upper bar 6. Said ears 19 are preferably formed by bending a portion of a plate 20, which is screwed or otherwise attached to said bar, down at right angles, as shown in Fig. 1. The said arms 17 are connected intermediate their ends by a supporting-bar 21, which rests upon the periphery of the roll of paper and serves as a support to hold the cutter-bar a predetermined distance from said roll. Said supporting-bar may be of any suitable construction, and its longitudinally-disposed portion is spaced from the arms 17 by having its ends curved or bent, as shown, and bolted, riveted, or otherwise secured to said arms. While in the drawings I have shown the cutter-bar 15, the swinging arms 17, and the supporting-bar 21 as separate parts secured together to form a rigid frame, I do not wish to limit myself to this construction, since said parts may be cast or otherwise formed in one solid piece.

In order to hold the free end of the web of paper up against the cutter-bar and to permit one or both of its corners to drop or hang down, so as to be readily grasped, I provide a support 22, which is mounted to slide upon the central longitudinal portion of the said supporting-bar 21. The said paper-supporting element or plate 22 is preferably made of spring metal and comprises an attaching or guide portion 23, a presser-finger 24, and a neck 25, which connects said finger and said attaching portion. The said presser-finger 24 has its ends 26 downturned, as shown, and holds the paper against the under side of the cutter-bar owing to the resiliency of the neck 25. The portion 23 of said element or plate may be slidably engaged with the bar 21 in any

suitable manner, but preferably by forming said bar with a longitudinally-disposed slot 27, through which and an opening in said portion 23 a bolt, rivet, or the like 28 is passed to hold said portion 23 upon the under side of said bar. It will be seen that when the element or plate 21 is at either end of the slot 27 the corner of the paper at that end will be held up against the cutter-bar, while the other corner will drop or hang down, as seen in Fig. 1, in a position to be readily grasped by the hand when it is desired to unwind the paper and tear off a portion. The paper-supporting element or plate may be readily moved to either end of the slot by pushing the same along the supporting-bar 21. The advantage of thus shifting the paper-support will be apparent when the roll-holder is placed transversely upon the top of a store-counter or the like. A person upon either side of the counter may quickly shift the position of the support, and thus be permitted to tear off a sheet of paper without having to go around the counter to the other side or reaching entirely across the counter when the depending corner of the paper is on the opposite side. The presser-finger 24 of the paper-support may be of any desired length or size, and when the web of paper is very wide it may be used in the center of the supporting-bar 21, so that both corners of the free end of the paper will hang down, as will be readily understood. The said bar 21 not only serves as a support for the cutter-bar, but it also acts as a check to prevent the roll of paper from unwinding too freely. In order to further check the unwinding of the paper and to hold the free end of the web of paper in the proper position when the presser-finger 24 does not act with sufficient force, I provide a weighted follower 29, attached to the end of a swinging arm 30, which is pivotally attached, as at 31, to the center of the cutter-bar 15. The weight 29 rests upon the top of the roll of paper and owing to its pivotally or swinging connection lowers as the size of the roll decreases.

I have explained the operation of the machine, along with the description of the parts, and a further explanation is deemed unnecessary. The many advantages of my invention will be apparent from the foregoing description, taken in connection with the accompanying drawings.

It will be understood that I do not limit myself to the construction herein shown and described, since various changes in the form, proportion, and the minor details of construction may be resorted to without departing from the principle or sacrificing any of the advantages of this invention.

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

1. In a cutting device for paper or the like, the combination of a cutter-bar, a paper-supporting element coacting with said cutter-bar, and means for adjusting said element longitudinally with respect to said cutter-bar, substantially as described.

2. In a cutting device for paper or the like, the combination of a cutter-bar, and a coacting slidably-mounted paper-support adapted to be moved longitudinally with respect to said cutter-bar to support either corner of one end of said paper and to permit the other corner of the same to hang down in a position to be readily grasped, substantially as described.

3. In a cutting device for paper or the like, the combination of a cutter-bar, means for supporting the same, and a paper-support mounted to slide longitudinally upon said means and coacting with said cutter-bar, substantially as described.

4. In a serving apparatus of the character described, the combination with a roll-holder, of a frame, a cutter-bar carried by said frame, and a movable paper-support mounted upon said frame and to coact with said cutter-bar to hold a portion of the free end of the paper against said cutter-bar, substantially as described.

5. In a serving apparatus of the character described, the combination with a roll-holder, of a swinging frame, a cutter-bar carried by said frame, and a longitudinally-movable paper-support adapted to hold either corner of the free end of the paper in contact with said cutter-bar, substantially as described.

6. In a serving apparatus of the character described, the combination with a roll-holder, of a swinging frame, a cutter-bar carried by said frame, a cutter-bar support upon said frame adapted to hold said cutter-bar away from the roll upon said roll-holder, and a longitudinally-slidable paper-holder upon said cutter-bar support adapted to hold either corner of the free end of said paper against said cutter-bar, substantially as described.

7. In a serving apparatus of the character described, the combination with a roll-holder, of a swinging frame, a cutter-bar carried by said frame, a slotted supporting-bar upon said frame adapted to hold said cutter-bar away from the roll in said roll-holder, and a paper-support slidably mounted in the slot in said supporting-bar and adapted to hold a portion of the paper against said cutter-bar, substantially as described.

8. In a serving apparatus of the character described, the combination with a roll-holder, of arms pivotally mounted upon said roll-holder, a cutter-bar carried by the free ends of said arms, a cutter-bar support connecting said arms and engaging the periphery of the roll upon said roll-holder, a slidably-mounted paper-support upon said cutter-bar support adapted to hold either corner of the free end of the paper against said cutter-bar, substantially as described.

9. In a serving apparatus of the character

described, the combination with a roll-holder, of arms pivotally mounted upon said roll-holder, a cutter-bar carried by the free ends of said arms, a supporting-bar connecting said arms and bearing upon the roll in said roll-holder, a paper-support mounted to slide longitudinally upon said supporting-bar, and a swinging weight or follower adapted to bear upon the roll of paper to check its feed, substantially as described.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

RICHARD T. JONES.

Witnesses:

ERNEST A. WENZEL,

IRVING BULL.