Dec. 4, 1928. 1,693,877

W. A. UTTZ, SR

ROLL HOLDER FOR GUMMED TAPE SERVING MACHINES

Filed Nov. 25, 1927 2 Sheets-Sheet 1

Fig. 1.

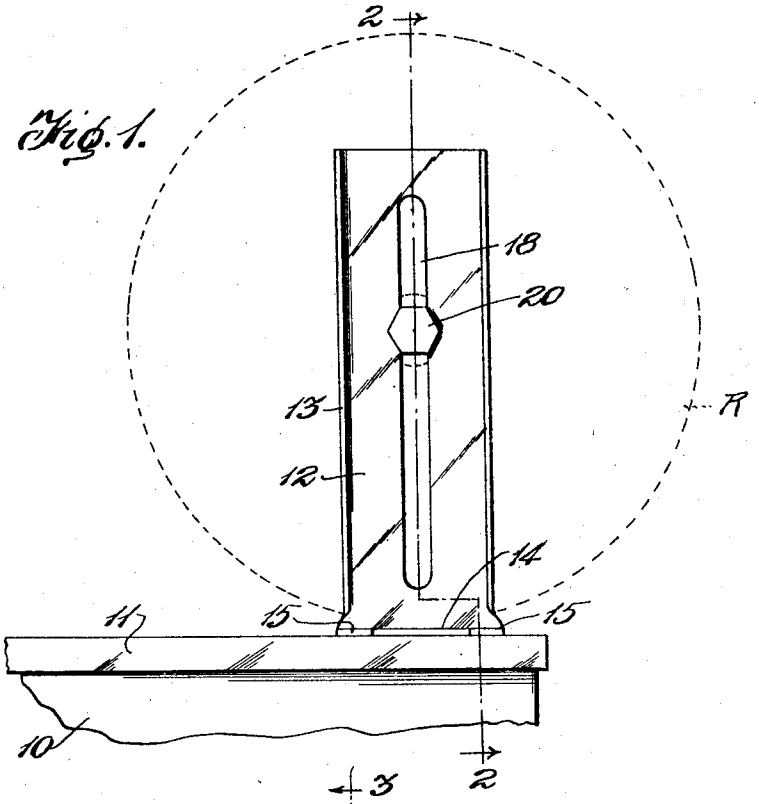


Fig. 2.

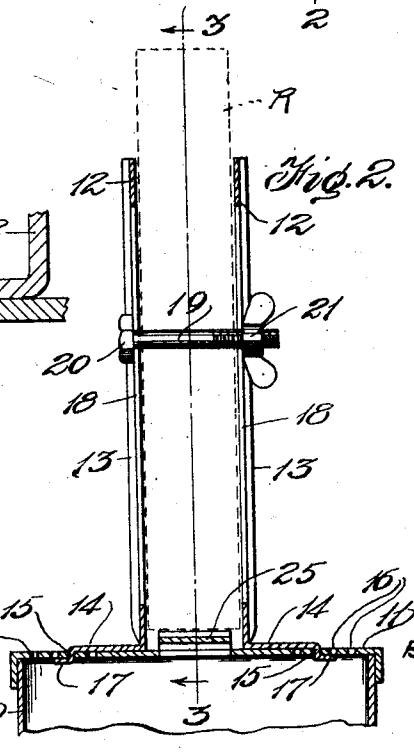
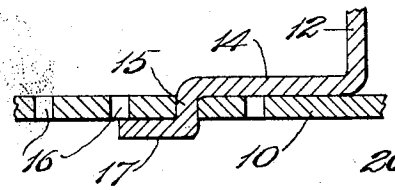


Fig. 3.



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Fig. 3.

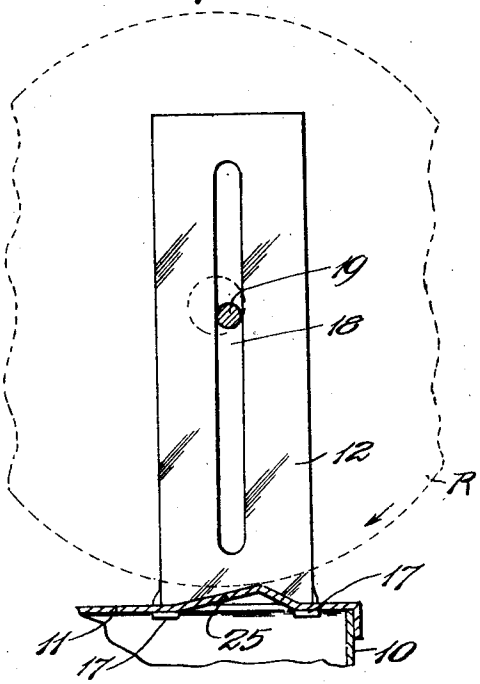


Fig. 4.

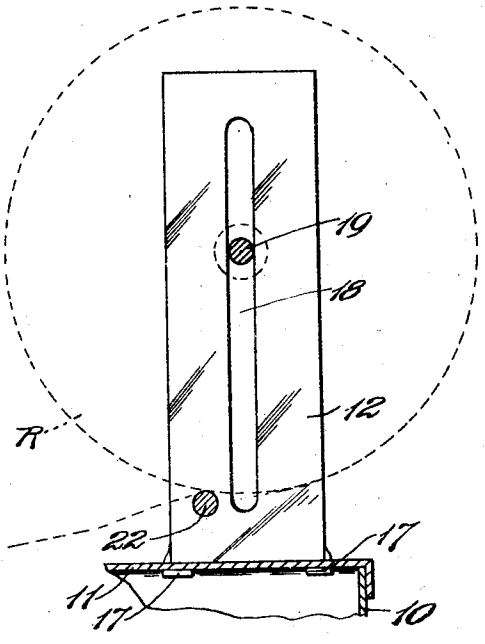


Fig. 5.

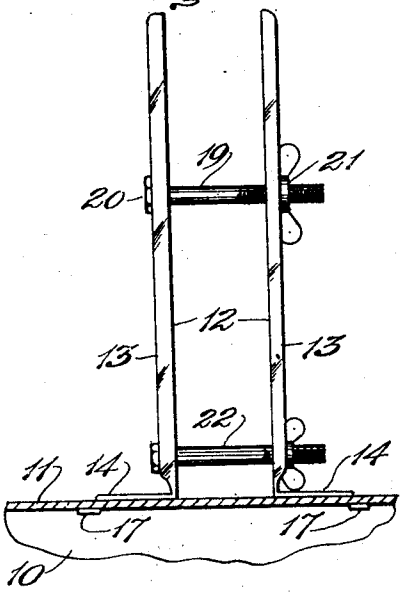
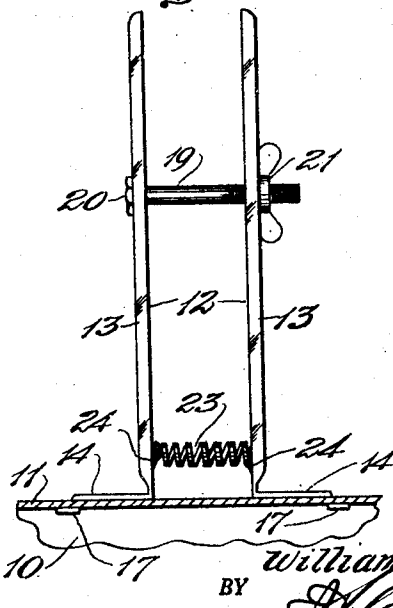


Fig. 6.



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UNITED STATES PATENT OFFICE.

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ROLL HOLDER FOR GUMMED-TAPE SERVING MACHINES.

Application filed November 25, 1927. Serial No. 235,672.

This invention relates to gummed tape dispensing machines and has special reference to an adjustable roll holder for gummed tape machines.

It is a well understood fact that gummed tape comes in various widths and machines have been devised for dispensing such tape wherein a roll of the tape is supported on a shaft or axle which is carried in turn by a pair of spaced standards, there being one standard on each side of the roll. Various methods have been devised to secure such standards in adjusted relation so that they would be properly spaced for the particular width of gummed tape that was being dispensed. Most of these methods involve the idea of, by some means, bolting the foot of the standards onto the body or supporting plate of the machine. Such arrangements make it very inconvenient to change the sizes of rolls or to replace exhausted rolls by new ones.

One important object of the present invention is to provide a novel and improved arrangement of roll support for such machines wherein the standards are secured to the supporting plate or body of the machine in a simple manner without bolting them down to the plate and yet so that they will be securely positioned in the desired adjustment.

A second important object of the invention is to provide an improved construction of roll holder wherein the shaft or bolt that supports the roll will also function to prevent displacement of the standards from their adjusted position.

A third important object of the invention is to provide an improved arrangement of base and standards so constructed that with the roll supported between the standards the tendency of the roll, after a length of the paper or tape has been drawn therefrom, is to roll up on the drawn off portion adjacent the body of the roll.

With the above and other objects in view as will be hereinafter apparent, the invention consists in general of certain novel details of construction and combinations of parts hereinafter fully described, illustrated in the accompanying drawings and specifically claimed.

In the accompanying drawings like characters of reference indicate like parts in the several views, and:

Figure 1 is a side elevation of a portion of a gummed tape dispensing machine showing the improved arrangement of roll holder.

Figure 2 is a section on the line 2—2 of Figure 1.

Figure 3 is a section on the line 3—3 of Figure 2.

Figure 4 is a section similar to Figure 3 showing a modified form of securing means.

Figure 5 is a front elevation of the standards in the modified form with a portion of the supporting plate in section.

Figure 6 is a front elevation similar to Figure 5 showing a second modification.

Figure 7 is a large detail section showing the locking of a standard to the supporting plate.

In the present embodiment of the invention there is shown a portion 10 of a gummed tape dispensing machine such as is illustrated in general in my prior Patent Number 1,592,431, issued July 13, 1926, Reissue Number 16,774, dated October 18, 1927. The top plate 11 of this machine forms the supporting plate for a pair of standards 12, the vertical parts of which are stiffened by lateral flanges 13. Extending laterally and outwardly from the bottom of each of these standards is a foot 14 which terminates in a downwardly extending pair of toes 15, these toes being arranged at the corners of the feet. The plate 11 on each side of the center line of the machine is provided with a pair of series of laterally spaced slots 16 and the toes 15 extend through these slots when the standards are in adjusted position, the feet 14 resting on top of the plate 11. Extending laterally from the lower end of each toe is a terminal portion 17 which engages against the underside of the plate 11 as can be clearly seen in Figure 2.

Each of the standards is provided with a vertical slot 18 and through these slots passes the supporting bolt or shaft 19 which has a head 20 on one end and carries a butterfly nut 21 on the other end. By this means the paper roll R, shown in dotted lines, is supported and it is to be noted that this roll is supported loosely on the shaft 19, the opening in the roll being sufficient to permit some movement so that the roll takes somewhat the position shown in Figure 3. This shaft 19 thus not only holds the roll but also keeps the upper ends of the standards 12 from spreading

apart and so long as the standards are held vertically as shown in Figure 2 it will be obvious that they will be locked against movement laterally of the plate 11 and be held from disengagement since the only way a standard can be disengaged is to swing it outwardly from center line of the machine.

In the form shown in Figures 4 and 5 an additional bolt and nut 22 is illustrated as holding the standards together adjacent the bottom. With this arrangement, if desired, the nut 21 may be left loose without danger of the standards becoming displaced. In Figure 6 a further modification is shown wherein, in addition to the bolt 19, a spring 23 of the tension spring type has its ends secured to prongs 24 projecting inwardly from the lower parts of the standards, the spring urging the upper parts of the standards toward each other just as do the bolts 19 and 22 when screwed up. Obviously, when it is desired to remove the standards the spring may be unhooked from one of the prongs 24 if necessary.

It has been found that when paper is drawn off from a roll such as this there is a tendency for a certain amount of slack or buckling of the paper between the delivery end of the machine and the roll. To overcome this tendency I prefer to provide between the standards 12 a struck up portion of the plate 11, one part of which forms a forwardly extending and downwardly inclined rest 25 on which the bottom of the roll R seats itself when placed between the standards. Under these circumstances as the paper is drawn off the roll revolves in the direction of the arrow shown in Figure 3 but when the drawing off motion stops it is found that the roll has slightly climbed the incline 25 and will roll down that incline and tighten up the loose paper or tape.

Obviously, the slots in the standard permit the supporting shaft or axle to drop down as the paper is used off the roll so that the roll may rest on the plane 25 or rod 22 as it diminishes in size.

There has thus been provided a simple and efficient device of the kind described and for the purpose specified.

It is obvious that minor changes may be made in the form and construction of the invention without departing from the material spirit thereof. It is not, therefore, desired to confine the invention to the exact form herein shown and described, but it is desired to include all such as properly come within the scope claimed.

Having thus described the invention, what is claimed as new, is:

1. In a gummed tape dispensing machine, a supporting plate having a series of slots spaced laterally from each other on opposite sides of the center line of said plate, a pair of roll supporting standards each having a foot provided with a toe passing through a selected slot in a respective series and provided with a terminal portion engaging beneath said plate, and means to draw the upper parts of said standards together and thereby hold them normally against removal from said slots.

2. In a gummed tape dispensing machine, a supporting plate having a series of slots spaced laterally from each other on opposite sides of the center line of said plate, a pair of roll supporting standards each having a foot provided with a toe passing through a selected slot in a respective series and provided with a terminal portion engaging beneath said plate, and a bolt passing through the standards above said feet and limiting movement of the standards from each other.

3. In a gummed tape dispensing machine, a supporting plate having a series of slots spaced laterally from each other on opposite sides of the center line of said plate, a pair of roll supporting standards each having a foot provided with a toe passing through a selected slot in a respective series and provided with a terminal portion engaging beneath said plate, a bolt passing through the standards above said feet and limiting movement of the standards from each other, and a tension spring between said standards urging them toward each other.

4. In a gummed tape dispensing machine, a supporting plate having at each side of its center line a series of slots spaced laterally of the plate, a pair of roll supporting standards extending up from the plate and each provided with an outwardly extending foot resting on the plate, a toe on the foot of each standard extending through a selected slot of a respective series, a lateral projection extending outwardly from the lower end of each toe and engaging against the lower face of said plate, and means to draw the upper parts of said standards toward each other and thereby hold them normally against disengagement from said slots.

5. In a gummed tape dispensing machine, a supporting plate having at each side of its center line a series of slots spaced laterally of the plate, a pair of roll supporting standards extending up from the plate and each provided with an outwardly extending foot resting on the plate, a toe on the foot of each standard extending through a selected slot of a respective series, a lateral projection extending outwardly from the lower end of each toe and engaging against the lower face of said plate, and a bolt passing through the standards above said feet and limiting movement of the standards from each other.

6. In a gummed tape dispensing machine, a supporting plate having at each side of its center line a series of slots spaced laterally of the plate, a pair of roll supporting standards extending up from the plate and each

provided with an outwardly extending foot resting on the plate, a toe on the foot of each standard extending through a selected slot of a respective series, a lateral projection extending outwardly from the lower end of each toe and engaging against the lower face of said plate, a bolt passing through the standards above said feet and limiting movement of the standards from each other, and a tension spring between said standards urging them toward each other.

In testimony whereof I affix my signature.

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