E. H. MICHAEL.

PAPER ROLL HOLDER AND INKING ATTACHMENT.

APPLICATION FILED APR. 22, 1914.

1,202,560.

Patented Oct. 24, 1916.

2 SHEETS—SHEET 1.

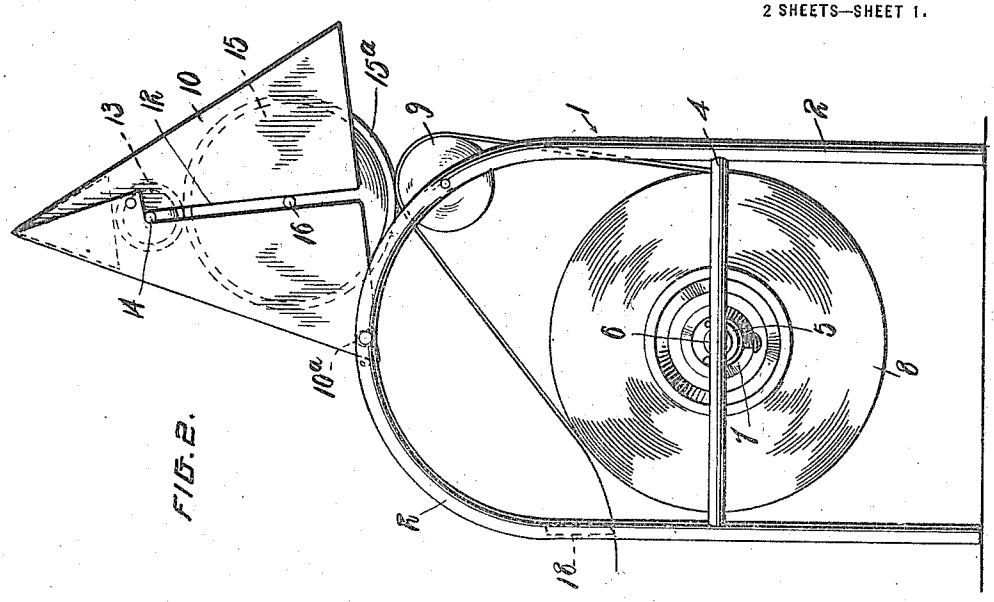


FIG. 2.

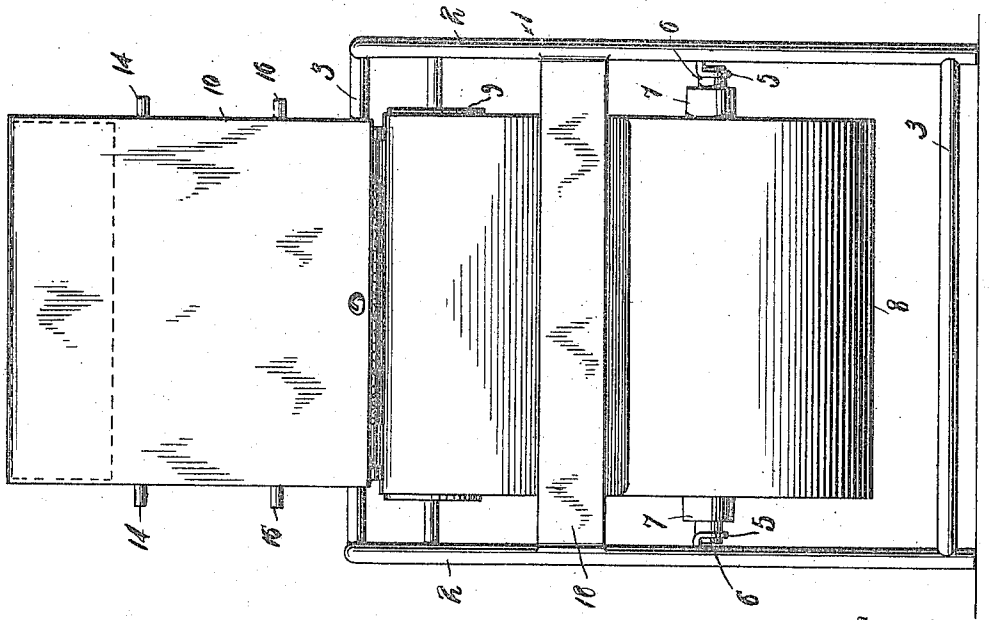


FIG. 1.

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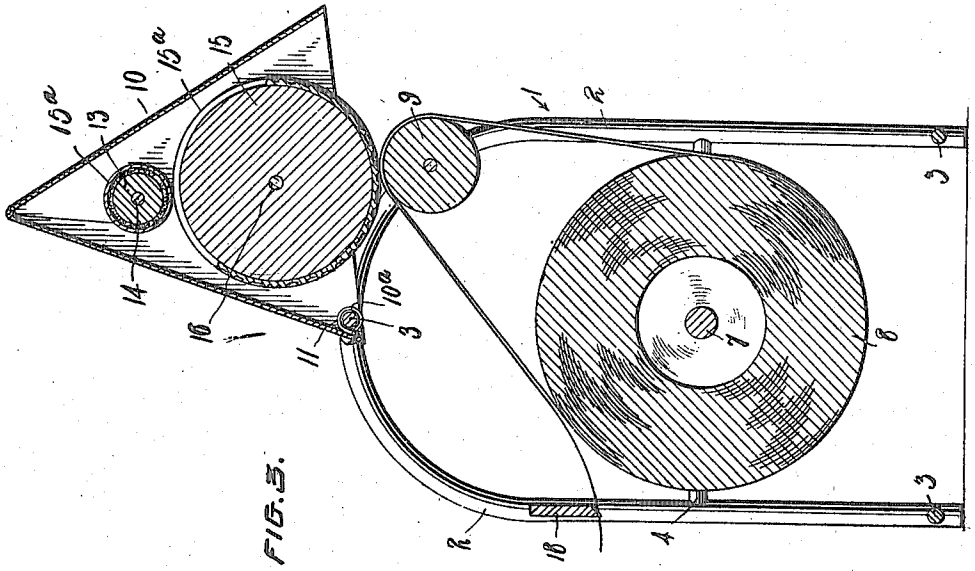


FIG. 3.

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PAPER-ROLL HOLDER AND INKING ATTACHMENT.

1,202,560. Specification of Letters Patent. Patented Oct. 24, 1916.

Application filed April 22, 1914. Serial No. 833,703.

To all whom it may concern:

Be it known that I, EDWARD H. MICHAEL, citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Paper-Roll Holders and Inking Attachments; 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.

My invention relates to improvements in printing attachments for paper roll holders, whereby advertising matter may be placed upon the paper sheets as they are removed from the roll for wrapping or other purposes.

The objects of my invention are to provide improvements in machines of this character affording increased facilities for withdrawing and tearing off the paper in desired lengths, and to provide a printing attachment to print directly on the paper as it comes from the roll.

The device is particularly adapted for use by merchants for printing a desired name or a suitable advertisement upon wrapping paper as the same is withdrawn from the paper roll.

A further object of my invention is to provide a printing attachment in which the rolls may be quickly and easily inserted or removed without soiling the hands of the operator.

With these and other objects in view, my invention consists in the details of construction set forth in the following specification, illustrated in the accompanying drawings and more particularly pointed out in the appended claim.

In the drawings, Figure 1 is a front view of my improved paper roll holder and printing attachment. Fig. 2 is a side view of the same. Fig. 3 is a vertical sectional view.

In the drawings 1 designates the frame of my improved roll holder which comprises the inverted U-shaped end bars 2 connected at their tops and sides by transverse rods 3. The end bars 2 are provided with rods 4 having bearing brackets 5 in which are rotatably mounted spindles 6 of the core 7 on which the paper roll 8 is mounted. This forms a holder from which the paper may be unwound as it is used. On the back of the frame, and near its upper end is loosely mounted a roll 9 which acts as the bed roll for the printing attachment.

The printing attachment preferably consists of a casing 10 provided with notches 10^a engaging the upper transverse rod 3 of the frame, and said casing is held on said rod by means of a coiled spring 11, said spring being coiled around the rod 3, and having one of its ends connected to the casing 10, and its other end secured to said rod. The spring exerts a downward pressure on the casing and forces the same toward the bed roll 9. The ends of the casing 10 are each provided with a substantially vertical slot 12 in which are mounted spindles 14 and 16 of the inking roll 13 and the printing roll 15.

The inking roll 13 is mounted above the printing roll 15 and the ends of said rolls are provided with friction rings or collars 15^a which cause the same to rotate simultaneously in opposite directions. The roll 15 is rotated by withdrawing the paper from the roll 8 after it is threaded over the bed roll 9, as best shown in Fig. 3 of the drawings. It is also pointed out at this time that the machine may have a number of printing rolls 15 containing type set for different advertisements, whereby the user may print a number of different advertisements or notices. For changing either the inking or printing roll, or both, it is only necessary to lift the free end of the casing 10 against the tension of the spring 11 and the spindles of said rolls will drop out of the slots 12.

In the operation of my device, a roll of paper 8 is placed upon the core 7 and the spindles 6 of said core placed in position on the brackets 5. The free end of the paper is then brought upwardly and between the rolls 9 and 15, back again around the paper roll 8 and upwardly and again over the roll 9, and out of the frame beneath the knife 18. This double threading of the paper causes the same to maintain a proper tension and to feed easily. Now, as the end of the paper is drawn forward the rolls 9, 15 and 13 are revolved and as said printing roll 15 receives ink from the ink roll 13 it transfers the designation set up in the type to said paper. It will thus be seen that as the paper is withdrawn from the roll 8, the same is printed as used.

It is obvious that the frame may be made

of any desirable material and of different lengths so as to provide for different widths of wrapping paper.

What I claim and desire to secure by Letters Patent is:—

A roll paper printing device, comprising a frame consisting of U-shaped end bars having intermediate cross bars, transverse rods connecting said end bars at the top and sides, bearings provided on the cross bars and adapted to support a paper roll, a bed roll mounted on said end bars above said bearings over which the paper is adapted to be threaded, a casing having the lower edge of its ends notched to pivotally engage the top transverse rod, a spring coiled around said top transverse rod and having one of its ends connected to the casing and its other end connected to the top rod for exerting a downward pressure on said casing, slots provided in the ends of said casing and opening downwardly, and an inking roll and printing roll having spindles which are rotatably mounted in said slots.

In testimony whereof I affix my signature in the presence of two witnesses.

EDWARD H. MICHAEL.

Witnesses:

J. K. MOORE,

ROBT. E. BARRY.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."