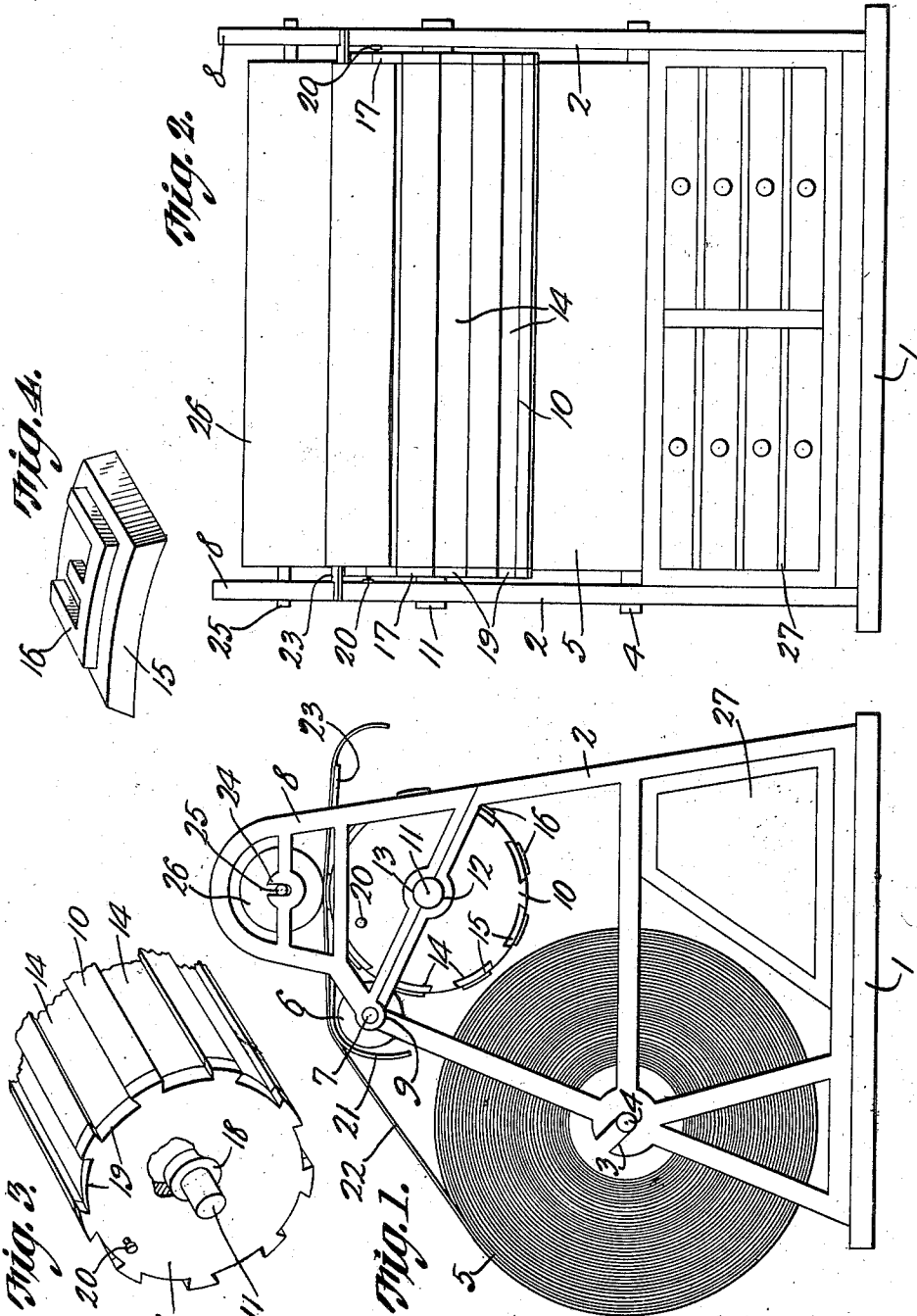


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PAPER ROLL HOLDER AND PRINTING DEVICE.
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Patented May 15, 1917.



Witnesses

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CHARLES HAZELTON O'CONNOR, OF SAULT STE. MARIE, ONTARIO, CANADA.

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1,226,243.

Specification of Letters Patent.

Patented May 15, 1917.

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To all whom it may concern:

Be it known that I, CHARLES H. O'CONNOR, a citizen of the Dominion of Canada, residing at Sault Ste. Marie, in the Province of Ontario and Dominion of Canada, have invented a new and useful Paper-Roll Holder and Printing Device, of which the following is a specification.

The present invention appertains to printing devices, and aims to provide a novel and improved combined paper roll holder and printing device, said printing device providing imprints upon the paper as it is unrolled, whereby the wrapping paper provides an advertising medium. The present device is adapted for use by merchants to advertise their wares on the blank surface of the wrapping paper, although the contrivance is useful for other purposes as well.

Another object of the invention is the provision of a printing device of the nature indicated embodying a printing roll for holding interchangeable type, whereby the printing can be changed to suit the circumstances, said roll being supplied with ink from an ink roller, and being arranged to provide the imprints upon the wrapping paper as it is unrolled.

A further object of the invention is to provide novel means for assembling the printing device and paper roll holder, whereby the operation of the device is convenient and effective, the machine being comparatively simple, light, compact and inexpensive in construction, as well as being practical and efficacious in use.

With the foregoing and other objects in view which will appear as the description proceeds, the invention resides in the combination and arrangement of parts and in the details of construction hereinafter described and claimed, it being understood that changes in the precise embodiment of the invention herein disclosed can be made within the scope of what is claimed without departing from the spirit of the invention.

The invention is illustrated in the accompanying drawings, wherein:—

Figure 1 is a side elevation of the machine.

Fig. 2 is a front view thereof.

Fig. 3 is a fragmental perspective view of the printing roll.

Fig. 4 is an enlarged perspective view of one of the types.

The frame of the present machine com-

prises a suitable base 1 upon which is attached a pair of side or end skeleton standards 2. The standards 2 are provided with rear notches or seats 3 for receiving the ends of a spindle 4 which supports the roll 5 of wrapping paper, whereby said roll is mounted for rotation between the standards.

An ink roller 6 parallel with the roll 5 has its shaft 7 supported by the upper ends of the standards 2, and the upper sections 8 of the standards 2 have eyes 9 journaled upon the ends of the shaft 7, whereby the upper sections 8 can be swung upwardly and rearwardly out of the way.

The ink roller 6, which is of the absorbent type, is supplied at suitable intervals with an anilin or quick drying rubber stamp ink, and this ink is supplied to the type carried by the printing roll 10. This roll 10 is of cylindrical form and is parallel with the horizontal roller 6 and roll 5, being disposed in front of the said roll and roller. The shaft 11 of the printing roll 10 is seated in notches or seats 12 with which the standards 2 are provided, and the swingable sections 8 are provided with lower notches or portions 13 to engage upon the terminals of the shaft 11 to hold it in place in the notches 12. When the sections 8 are swung upwardly, the printing roll can be readily removed and replaced, and this also permits of the type being readily removed and replaced.

The roll 10 is provided in its periphery with longitudinal dove-tailed type grooves 14 for receiving the dove-tailed backing blocks 15 of the types 16, said types being inserted in the grooves by a longitudinal movement from one end. A suitable type equipment can be provided whereby the wording upon the printing roll can be changed at will, the types being interchangeable. The inking roller 6 bears against the type of the printing roll to supply the ink thereto.

In order to hold the type within the grooves 14, disks 17 are mounted for rotation upon bosses 18 with which the ends of the roll 10 is provided, and said disks bear against the ends of the roll. The peripheries of the disks 17 are provided with dove-tailed notches 19 adapted to be brought into registration with the grooves 14, for permitting of the insertion and removal of the type, but when the disks 17

are rotated to bring the notches 19 out of registration with the grooves 14, the type will be held within the grooves 14 and cannot shift accidentally out of the said grooves. Each of the disks 17 carries a latch pin 20 which is engageable with the roll 10 to hold the disk 17 in place, said latch pin being readily retracted to enable the disk to be rotated.

A sheet metal or other suitable shield 21 is secured between the sections 8 above the printing roll 6, and the paper 22 unrolled from the roll 5 is adapted to pass over the shield 21, so that the paper will not contact with the ink roller. From the shield 21 the paper 22 passes over the printing roll 10 and thence onto a supporting plate or shelf 23 disposed between and secured to the sections 8. The plate 23 also acts as a cutter, since the paper can be torn off along the forward edge of said plate by pulling the paper downwardly properly.

In order to hold the paper upon the printing roll to assure of the proper imprint upon the paper, and to also assure of the rotation of the printing roll 10, a roller 26 of suitable weight is disposed above the roll 10 and has its shaft or trunnions 25 disposed for vertical movement in upwardly opening slots, or notches 24 with which the sections 8 are provided, whereby the roll 26 can move downwardly to be supported by the printing roll, and to thus hold the paper upon the printing roll.

A cabinet 27 is preferably mounted upon the base 1 between the standards 2 for containing the type. If desired, plates can be used upon the printing roll. These plates can be provided with suitable raised words, legends, pictures, and the like, to receive the ink and provide the imprint upon the paper.

In operation, when the free end of the paper is grasped above the plate 23, and pulled outward, the paper is unrolled from the roll 5 and is pulled over the printing roll 10, and the roller 26 in holding the paper upon the roll 10 will provide the imprints upon the under surface of the paper, ink being supplied to the type by the ink roller 6 which bears against the type as the roll 10 rotates. When sufficient paper has been pulled out, the same is torn off along the edge of the cutter plate 23, and the paper can then be laid upon the counter or other surface without the necessity of turning it over, since the imprint is upon the lower surface of the paper, and the objects to be wrapped are placed upon the paper, to be wrapped thereby in the ordinary manner, and the printing will be upon the exterior of the package. The printing is done automatically simply by the unrolling of the

paper, and this affords simple and convenient means for providing advertisements upon the wrapping paper. When the sections 8 are swung upwardly and rearwardly, the paper is lifted from the roll 10, and the roll 10 and ink roller 6 are then accessible.

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

1. A device of the character described embodying a frame having an upper hinged portion, and means below said portion for holding a roll of paper, a rotatable printing roll carried by the frame, said portion of the frame being swingable upwardly away from the printing roll, said portion of the frame having means for supporting the paper for movement over the printing roll in contact with the upper portion thereof, and means carried by said portion of the frame for holding the paper upon the printing roll.

2. A device of the character described embodying a frame having a lower portion and an upper portion hinged thereto, the lower portion of the frame having means for holding a roll of paper, and having seats, a printing roll having a shaft seatable in said seats, the upper portion of the frame swinging over said seats to hold the shaft therein, a pair of members carried by the upper portion of the frame over which the paper is adapted to pass from the roll, the upper portion of the printing roll being disposed between said members to contact with the under surface of the paper, and means carried by the upper portion of the frame for pressing the paper upon the printing roll.

3. A device of the character described comprising a frame having standards embodying lower and upper sections hingedly connected, the lower sections of the standards having means for holding a roll of paper and seats at their upper ends, the upper sections being seatable upon the lower ones over said seats, a printing roll having a shaft seated in said seats, members carried by the upper sections of the standards over which the paper is movable from the paper roll, the upper portion of the printing roll being located between said members to contact with the under surface of the paper, and a roll carried by the upper sections of the standards to hold the paper upon the printing roll.

In testimony that I claim the foregoing as my own, I have hereto affixed my signature in the presence of two witnesses.

CHARLES HAZELTON O'CONNOR.

Witnesses:

URIAH MCFADDEN,
GEORGE CARUFEL.