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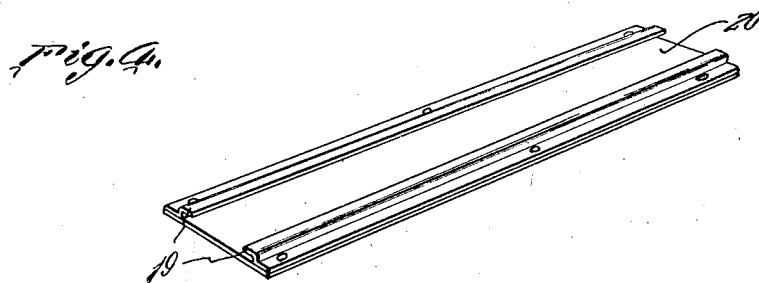
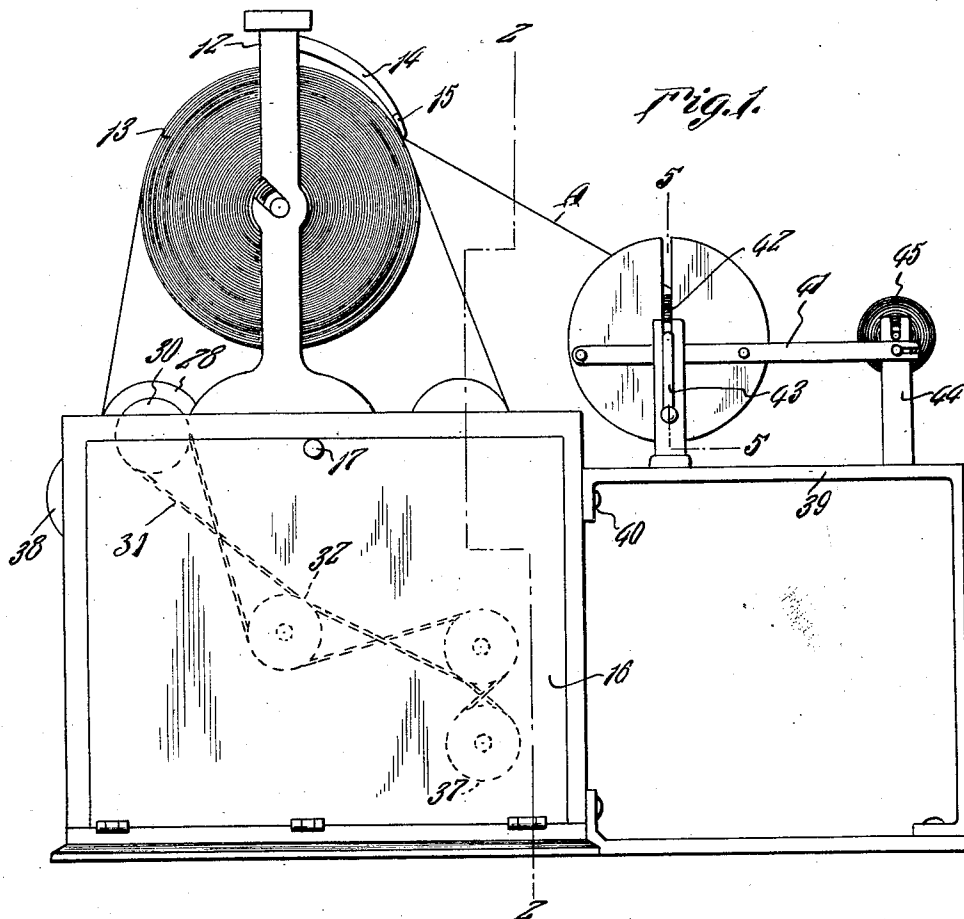
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A. P. TRAHAN

PRINTING MACHINE

Filed July 13, 1925

3 Sheets-Sheet 1



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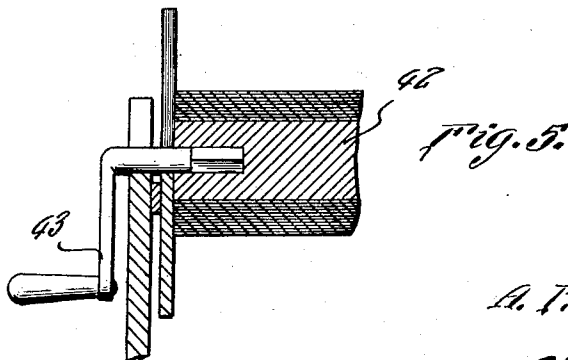
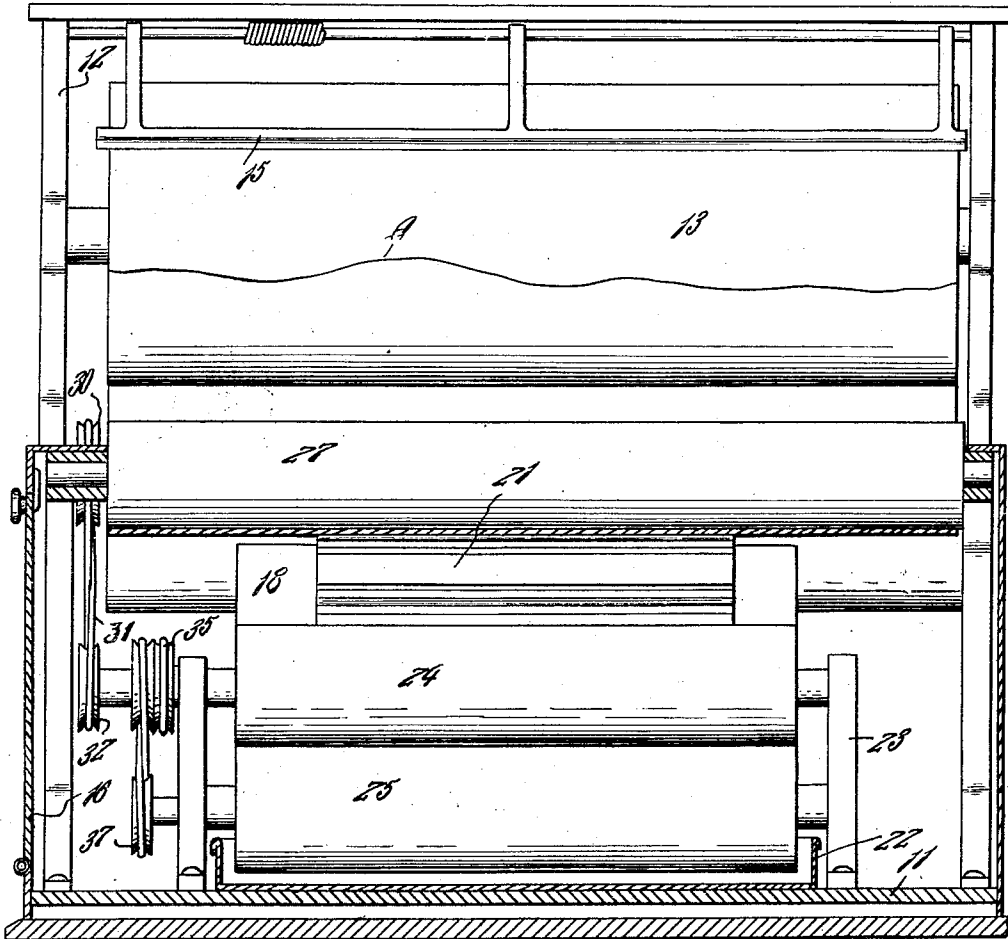
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Fig. 2.



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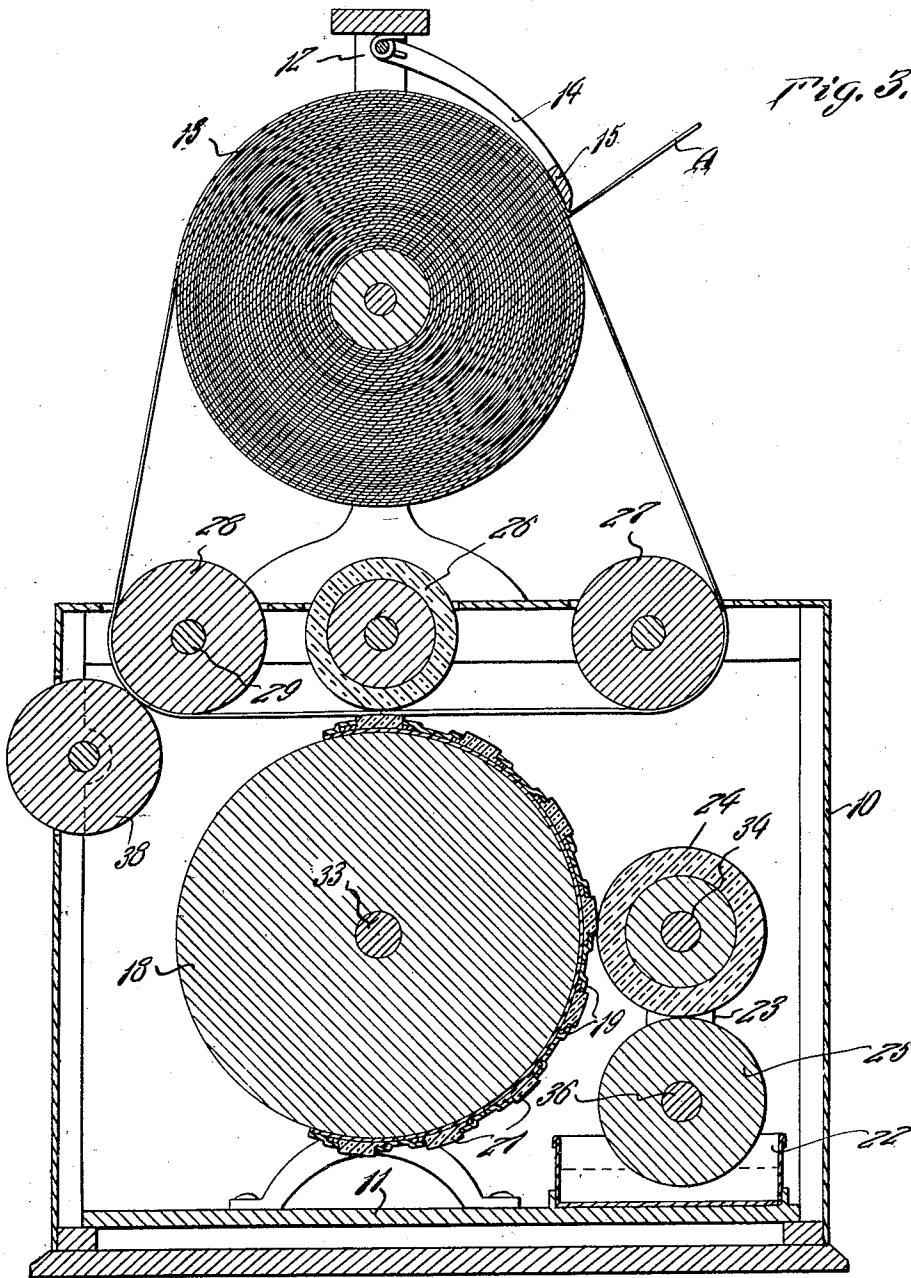
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3 Sheets-Sheet 3



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UNITED STATES PATENT OFFICE.

AMÉDÉE P. TRAHAN, OF WATERTOWN, MAINE.

PRINTING MACHINE.

Application filed July 13, 1925. Serial No. 43,328.

This invention relates to improvements in printing machines and has for an object the provision of a machine which may be combined with a paper roll holder to print any desired advertising or other matter upon the paper as the latter is unrolled, the machine being especially adapted for printing paper used in wrapping purchases.

Another object of the invention is the provision of a machine of the above character which in addition to printing the paper for use as each purchase is made, may be adapted to print an entire roll of paper.

Another object of the invention is the provision of a machine which includes in addition to the above and other advantages, simplicity of construction, reliability in use and affords means by which paper may be printed in an economical and attractive manner.

With the above and other objects in view, the invention further includes the following novel features and details of construction, to be hereinafter more fully described, illustrated in the accompanying drawings and pointed out in the appended claim.

In the drawings:—

Figure 1 is a side elevation of a machine constructed in accordance with the invention and shown arranged for printing a roll of paper.

Figure 2 is a sectional view taken substantially on the line 2—2 of Figure 1.

Figure 3 is a sectional view taken transversely through the rolls with the machine arranged to print the paper at the time of purchase.

Figure 4 is a detail perspective view of one of the type holders.

Figure 5 is an enlarged fragmentary perspective view taken substantially on the line 5—5 of Figure 1.

Referring to the drawings in detail wherein like characters of reference denote corresponding parts, the reference character 10 indicates a casing within which is arranged a suitable frame structure including a base 11, while mounted upon the casing are spaced standards 12, the latter removably supporting a roll of paper 13. The standards 12 provide a paper roll holder of substantially the same character as that in use for holding wrapping paper and from which a portion of the paper is removed for wrapping purchases. The standards therefore

support a spring pressed frame 14 which includes a longitudinally disposed cutting bar 15 whose cutting edge is adapted to sever the paper in the usual manner. The casing 10 is provided with a hinged door 16 by means of which access may be had to its interior, a latch 17 serving to hold the door in closed position.

Mounted in suitable bearings supported by the frame within the casing 10 is a type roll 18. This roll is provided around its periphery with any desired number of spaced pairs of retaining bars 19, each pair being mounted upon a base 20 suitably secured to the roll 18. Spaced guide and retaining grooves are thus provided with the open edges of the grooves opposed so as to slidably receive individual type or other printing characters 21. Suitable printed forms may thus be attached to the type roll to provide advertising or other printed matter.

Located within the casing 10 is an ink holder or container 22, while mounted in suitable bearing brackets 23 is an inking roll 24. This roll is formed of suitable material and engages the type face. In addition the roll 24 is engaged by a transfer roll 25 which operates in the ink container 22 and by means of which ink is transferred evenly to the inking roll so that the latter may provide an even distribution of ink upon the type faces. This ink is of course of a rapidly drying character.

Rotatably mounted within the casing 10 is an impression roll 26 which is preferably provided with a yieldable periphery and paper from the paper roll 13 is passed between this roll 26 and the type 21 so that the impression roll forces the paper into close contact with the printing face of the type to provide a proper printing impression. The paper is guided to the impression roll around an idler roll 27 and from the impression roll the paper is guided around an additional idler roll 28, the paper then passing upward over the top of the roll 13 and beneath the cutting bar 15.

In order to operate the type roll 18 and the inking roll and transfer roll, the roll 28 has attached to its shaft 29, a pulley 30. A belt 31 passes around this pulley and around a pulley 32 which is fast upon the shaft 33 of the type roll 18, the belt being crossed as shown so that both of these pulleys will operate in a like direction. The shaft 33

drives the shaft 34 of the inking roll through the medium of a belt and pulley drive 35, while the shaft 36 of the transfer roll is driven by a belt 37 from the shaft 34.

5 The roll 28 over which the paper passes provides power for the operation of the rolls 18, 24 and 25 and this roll receives power from the paper as the latter is unwound from the roll 13. In order to insure proper
10 traction, the paper as it passes around the roll 28 is engaged by a roll 38 which presses the paper against the roll 28.

As the free end A of the paper is pulled from the roll 13, the rolls just described will
15 be rotated so that the type 21 will engage the face of the paper as the latter passes between the type and the impression roll 26.

If desired an entire roll of paper may be printed and in order to conveniently accomplish this there is provided a frame 39 which
20 may be detachably secured to the casing 10 by screws or other fastening devices 40. This frame supports a supplemental frame 41 within which is removably mounted a receiving roll 42. This last mentioned roll is
25 provided with an operating handle 43 and the free end of the paper is wound upon the roll 42 from the roll 13, the winding process serving to actuate the printing mechanism
30 so that an entire roll of paper may be printed. An additional roll holder 44 is included in the supplemental frame 41, a small roll

of paper 45 being mounted therein. This holder 44 may serve to hold a reserve roll of paper or a roll of printed paper. 35

The invention is susceptible of various changes in its form, proportions and minor details of construction and the right is herein reserved to make such changes as properly fall within the scope of the appended
40 claim.

Having described the invention what is claimed is:—

A combined printing machine and paper holder comprising a casing, a type roll 45 mounted therein, an ink holder in the bottom of the casing, a transfer roll movable within the ink holder, an ink roll positioned for contact with the transfer roll and the type roll, a paper supply roll arranged above the
50 casing, idler rolls in the top of the casing upon opposite sides of the type roll and paper supply roll and an impression roll supported by the casing and disposed between the idler rolls for contact with the
55 type roll whereby the paper passing from the supply roll and passing around one of the idler rolls will be passed between the impression and type roll, thence upwardly over the other idler roll and part way around the
60 supply roll.

In testimony whereof I affix my signature.

AMÉDÉE P. TRAHAN.