

J. T. CORFIELD.
 AUTOMATIC PRINTING MACHINE.
 APPLICATION FILED JULY 22, 1908.

995,770.

Patented June 20, 1911.

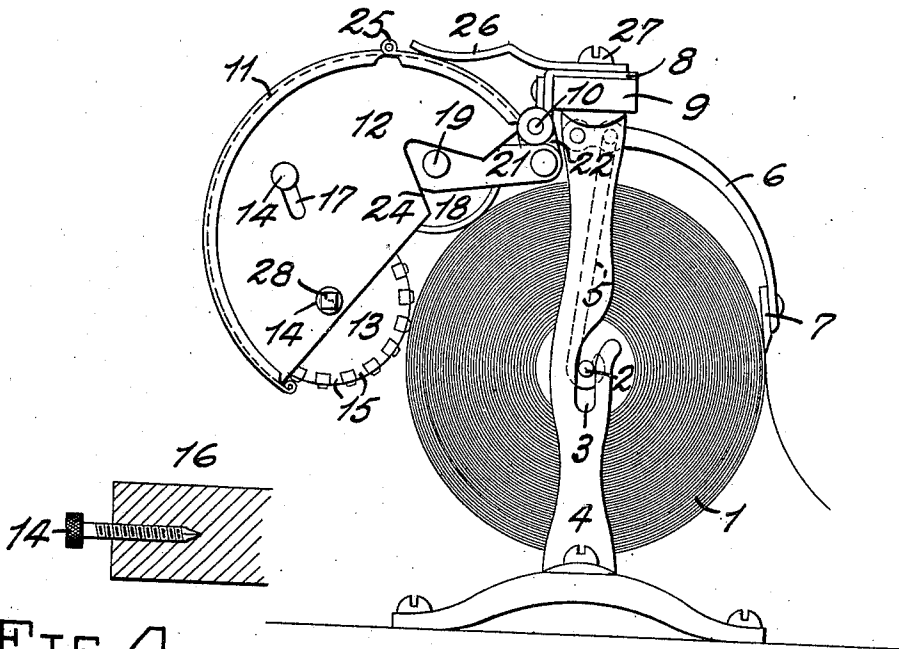


FIG. 4.

FIG. 1.

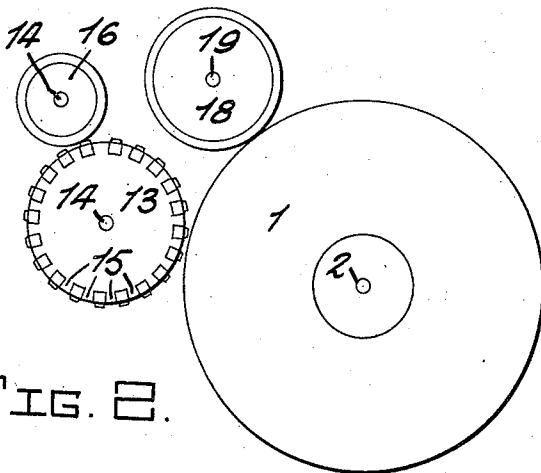
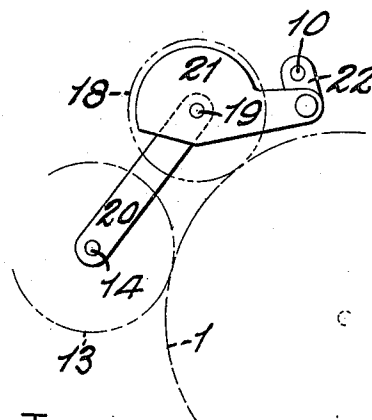


FIG. 2.

FIG. 3.



WITNESSES

Stuart H. Allen
C. R. McKim

INVENTOR
 JOSEPH T. CORFIELD

By *Frank S. Luntz*

UNITED STATES PATENT OFFICE.

JOSEPH T. CORFIELD, OF NEW YORK, N. Y.

AUTOMATIC PRINTING-MACHINE.

995,770.

Specification of Letters Patent. Patented June 20, 1911.

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To all whom it may concern:

Be it known that I, JOSEPH T. CORFIELD, of the city of New York, in the State of New York, United States of America, have invented certain new and useful Improvements in Automatic Printing-Machines, and do hereby declare that the following is a full, clear, and exact description of the invention.

10 This invention relates to an automatic printing machine designed to be attached to paper rolls, and the main object is to provide a very simple and inexpensive device of this character capable of being easily
15 attached to or removed from the ordinary paper roll, and by means of which advertising, or other matter, may be automatically printed on the paper as the latter is unwound from the roll.

20 The invention consists essentially of a printing roller, having spaced recesses for the reception of the type, an inking roller mounted adjacent the printing roller, and a blotter adapted to remove moist ink from the
25 paper after the latter has come in contact with the type. These members are mounted in such a manner as to cooperate with the paper roll as the paper is withdrawn therefrom.

30 In the drawings which illustrate my invention:—Figure 1 is an end elevation of the ordinary paper roll with the printing device attached thereto. Fig. 2 is a diagram showing the position of the printing roll, ink
35 roll, and blotter roll in relation to the paper roll. Fig. 3 is a diagram showing the blotter and printing roll with the ink mechanism therefor. Fig. 4 is a sectional view of one of the rolls with the pin mounted in the end
40 thereof.

Referring to the parts, 1 designates a paper roll of the usual type carried upon a spindle 2, mounted in slots 3 in a supporting bracket 4. The spindle of the paper roll is
45 also mounted in the slotted end of a supporting member 5, pivoted to a knife lever 6 having a cutting knife 7 mounted on the end thereof. The construction thus described is common to the ordinary paper rolls
50 and the printing device is attached thereto in the following manner:—A hinged bracket 8 is screwed or bolted to the top 9 of the paper supporting bracket in the manner shown the hinge pin 10 extending approxi-

mately throughout the length of the paper 55 roll. A cover 11, having flanges 12, is mounted on the hinge pin 10, in the manner shown, and is adapted to protect the printing mechanism from dust and exposure.

A printing roller 13 is rotatably mounted 60 in the side flanges of the cover upon the supporting pins 14, which extend through said cover, as shown in Fig. 1. The printing roller is provided with spaced ribs 15, between which rubber, or other type, may 65 be placed. The type is properly inked from an inking roller 16 rotatably mounted upon pins 14, in a similar manner to the printing roll, the said ink roller operating in a slot 17 in the flanged cover and lying by gravity 70 upon the printing roller, in the manner shown in Fig. 2. A blotter 18, also in the form of a roll is mounted on a spindle 19 and is adapted to lie against the paper roll in the manner shown in Figs. 1 and 2. 75

The blotter roll 18 is connected to the printing roll 13 at each end by means of the links 20, these links being long enough to prevent the blotter from touching the printing roll. The link 20 is pivotally mounted 80 at both ends. The blotter roll 18 is supported upon the paper roll by means of the link 21 which is pivotally attached to a short link 22 mounted on the hinge pin 10, as shown in Figs. 1 and 3. The pin 19 85 carrying the blotter roll is adapted to operate in the inverted V-shaped slot 24 in the flanged ends of the cover. The link 21 is enlarged at one end to cover the inside of the slot 24. It will thus be seen that the 90 blotter roll 18 is free to move on its pivot up or down within the slot 24 and will lie by gravity against the paper roll, always adapting itself automatically to the size of said paper roll. The link 20 keeps the blot- 95 ter roll and the printing roll uniformly at the same distance apart.

The cover 11 may be lifted from the side flanges and swung backward upon the hinge 25 when it is desired to reset the type or 100 work within the cover 11.

The whole printing device is maintained firmly against the paper roll by means of a pair of springs 26, pivoted to the top of the supporting bracket by screws 27. These 105 springs 26 may be swung outwardly free from the cover and the whole printing mechanism swung upwardly away from the

printing roll upon the hinge pin 10. The device may be readily attached to the same bracket that supports the paper roll and will operate automatically with great ease
5 and facility.

When the type has been set with any desirable advertising matter, the paper on being withdrawn from the roll, revolves the printing roller, which continues to repeat
10 the printed matter on the paper at every revolution. As the paper moves away from the printing roll to the blotter, the moist ink is absorbed and the paper comes out ready for wrapping purposes.

15 It will be obvious that the type may be set within any suitable recesses in the spaces between the ribs 15.

If it is desired to print paper bags or the like, the paper roll may be tied to prevent
20 the paper from unwinding therefrom, and the bags may be inserted between the paper roll and the printing roll, the latter being revolved by means of a suitable handle attached to the square end 28 of the pin 14, as
25 shown in Fig. 1.

Having thus described my invention, what I claim is:—

The combination with a paper roll having a supporting frame therefor, of a bracket mounted on said supporting frame, 30 a cover hinged to said bracket, a printing roll rotatably mounted in said cover and adapted to lie by gravity against the paper roll, an ink roll mounted in a slot within
35 said cover and adapted to lie upon said printing roll, a blotter roll mounted above the printing roll, a link connecting the pivots of said blotter and printing rolls and maintaining the rolls apart, and a pair of
40 pivotally connected links adapted to support the blotter against the paper roll as the paper roll decreases in size, substantially as described.

In witness whereof I have hereunto set my hand in the presence of two witnesses. 45

JOSEPH T. CORFIELD.

Witnesses:

DONALD McLACHLAN,
JOSEPH FORRESTER.

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