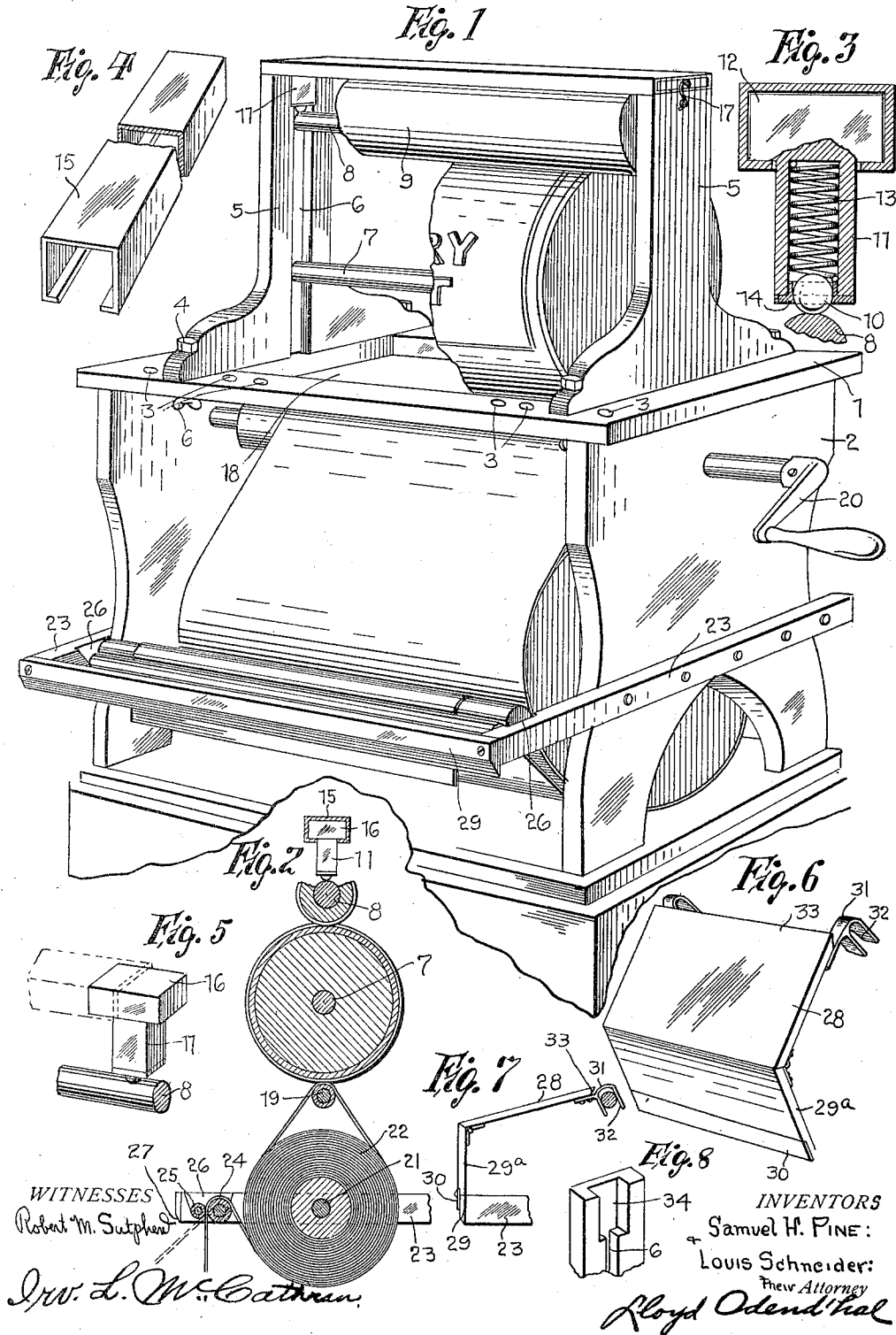


S. H. PINE & L. SCHNEIDER.
WRAPPING PAPER PRINTING MACHINE.
APPLICATION FILED OCT. 7, 1911.

1,030,533.

Patented June 25, 1912.



UNITED STATES PATENT OFFICE.

SAMUEL H. PINE AND LOUIS SCHNEIDER, OF BALTIMORE, MARYLAND.

WRAPPING-PAPER-PRINTING MACHINE.

1,030,533.

Specification of Letters Patent.

Patented June 25, 1912.

Application filed October 7, 1911. Serial No. 653,374.

To all whom it may concern:

Be it known that we, SAMUEL H. PINE and LOUIS SCHNEIDER, citizens of the United States, residing at Baltimore, in the State of Maryland, have invented certain new and useful Improvements in Wrapping-Paper-Printing Machines, of which the following is a specification.

This invention relates to paper printing machines, and has particular reference to roll paper printing machines wherein wrapping paper may be printed while being unrolled from the supply roller.

Another object of this invention is the production of a simple and efficient printing device which will be operated by merely drawing the paper over the contacting roller.

Another object of this invention is the production of efficient means for holding the inking roller in engagement with the roller containing the printing form.

With these and other objects in view, this invention consists of certain novel constructions, combinations and arrangements of parts as will be hereinafter fully described and claimed.

In the drawings:—Figure 1 is a perspective view partly broken away of the entire device. Fig. 2 is a vertical section through the rollers. Fig. 3 is a vertical section through the spring pressed means for holding the inking roller in engagement with the form carrying roller. Fig. 4 is a detail perspective partly broken away of the channel for supporting the spring pressed means illustrated in Fig. 3. Fig. 5 is a detail perspective of the spring pressed means for engaging the inking roller. Fig. 6 is a detail perspective of a table adapted to be used in connection with the present device, when it is desired to print paper bags. Fig. 7 is a side elevation thereof. Fig. 8 is a detail perspective of the upper end of one of the roll supporting frames.

Referring to the drawings by numerals 1 designates the top of the paper roll holder frame which is supported by means of legs 2. The top 1 is provided with a plurality of apertures 3 near each corner for receiving bolts 4, whereby the roll supporting members 5 may be adjustably connected to the top 1. Thumb nuts 6 are placed upon the lower ends of the plates 4 whereby the same may be readily disengaged from the bolts for changing the position of the roll supporting members 5 upon the top 1. The roll

supporting members 5 are provided upon their inner faces with a groove 6 in which travels the ends of the printing roller shaft 7. The ends of the shaft 8 of the inking roller 9 are also placed within the grooves 6 and the ends of the shaft 8 are engaged by a ball 10 which is carried by the depending portion 11 of the spring containing frame 12. A coil spring 13 is placed within the hollow body of the depending portion 11, and presses against the ball 10 for exerting a downward pressure upon the shaft 8 whereby the inking roller 9 will be firmly held in engagement with the printing roller. The lower end of the depending portion 11 is closed by means of a filler 14 being so formed as to limit the outward movement of the ball 10 within the frame 11.

A channel frame 15 is carried by the upper ends of the roll supporting members 5 and within the roll supporting members 5 is placed a T-shaped head 16 of the spring supporting frame 12. The channel member 15 and the spring supporting member 12 is held upon the top of the roll supporting members 5, by means of hooks 17. The top 1 is provided with an opening 18 through which extends a portion of the printing roller as is illustrated in Fig. 1. A contact roller 19 is carried by the legs 2 and a crank 20 is carried by one end of the roller 19 whereby the same may be rotated when desired. The paper roll supporting shaft 21 is supported by the legs and carries a roll of paper 22, a portion of which paper passes over the roller 19 before coming in contact with the printing roller.

A frame 23 is carried by the legs 2 and extends in front of the legs 2 as is illustrated in Figs. 1 and 2 and these legs carry at their outer ends contact or guide rollers 24 and 25. The roller 24 is covered with blotting paper or other absorbent material for absorbing any ink which might appear upon the paper. The roller 25 merely acts as a pressure roller for preventing the paper from becoming crimped while passing over the roller 24. The roller 19 is preferably covered with rubber. Each of the rollers 24 and 25 have their respective ends fitted in notches 26 formed in the frames 23. A cutting knife 27 is carried by the outer ends of the frame 23 and is sharpened upon its lower edge so that the paper may be brought in contact therewith and readily cut.

When it is desired to print paper bags in

connection with the printing device, a table is used as is illustrated in Figs. 6 and 7. This table comprises a primary section 28 and an auxiliary section 29 which is hinged to said primary section 28. A guide strip 30 is carried by the lower end of a section 29^a and engages the front edge of the knife 27 for assisting in holding the table in its proper position. The shaft engaging hooks 31 are carried by the upper end of the primary section 28 and comprise a pair of fingers 32 which are adapted to engage the shaft or roller 19 for holding the table in its proper position. Of course the table may be readily folded and put away in any convenient place, and thereby will not take up much room. The upper edge 33 of the primary section 28 is beveled so as to prevent said upper edge from wearing upon the roller 19.

From the foregoing description it will be obvious that an efficient means has been produced whereby the inking roller will be held in engagement with the printing roller and will also readily yield provided any obstruction should be carried by the printing roller without injuring the same.

It will further be obvious that an efficient device has been produced whereby different length rollers may be carried by the frame in view of the fact that the roller supporting members may be adjusted upon the table, and also in view of the fact that the securing hooks will easily engage the spring supporting frame, since the channel member 15 is provided with a split lower face whereby the hook may be allowed to pass there-through.

When the table is used in connection with the printing of paper bags, of course, the bags are fed between the printing roller, and the roller 19 by being first placed upon the primary section 28 of the table so that the same may be correctly directed between the rollers.

The upper end of the roll supporting frames are provided with sockets 34 in which sockets are adapted to fit the depending portions 11 of the spring pressed supporting means 12.

What is claimed is:—

1. A paper printing device of the class

described comprising a table, a printing roller, an inking roller, frames carried by said table and supporting said rollers, a channel frame connecting the upper ends of said roller supporting frames, casing carried thereby, said casing comprising an enlarged head traveling in said channel member and being provided with a depending portion, a coil spring placed within said depending portion and engaging the ball at its lower end, and means for holding said ball in said depending portion and said ball being adapted to cooperate with said inking roller for yieldably holding the same in engagement with said printing roller.

2. A paper printing device of the class described comprising a table, roll supporting frames adjustably mounted thereon, a printing roller, an inking roller, said roller supporting frames being provided with vertically extending grooves, shafts supporting said inking roller and said supporting roller, and having their ends working in said grooves, a channel member carried by the upper ends of said roll supporting frames, depending frames carried by said channel member, spring pressed means carried by said frames for engaging said shaft carrying said inking roller for yieldably holding said inking roller in engagement with said printing roller.

3. A paper printing device of the class described, comprising a printing roller, a contact roller, a cutting knife, a feeding table comprising a primary and an auxiliary section hinged together, shaft engaging hooks carried by the upper end of said primary section, a reinforcing strip carried by the lower edge of said auxiliary section for engaging said cutting knife whereby said feeding table will be firmly supported in connection with said contact roller for facilitating the passing of paper bags between said contact roller and said printing roller.

In testimony whereof we affix our signatures in presence of two witnesses.

SAMUEL H. PINE.
LOUIS SCHNEIDER.

Witnesses:

L. H. MARTIN,
JOHN T. BROWN.