

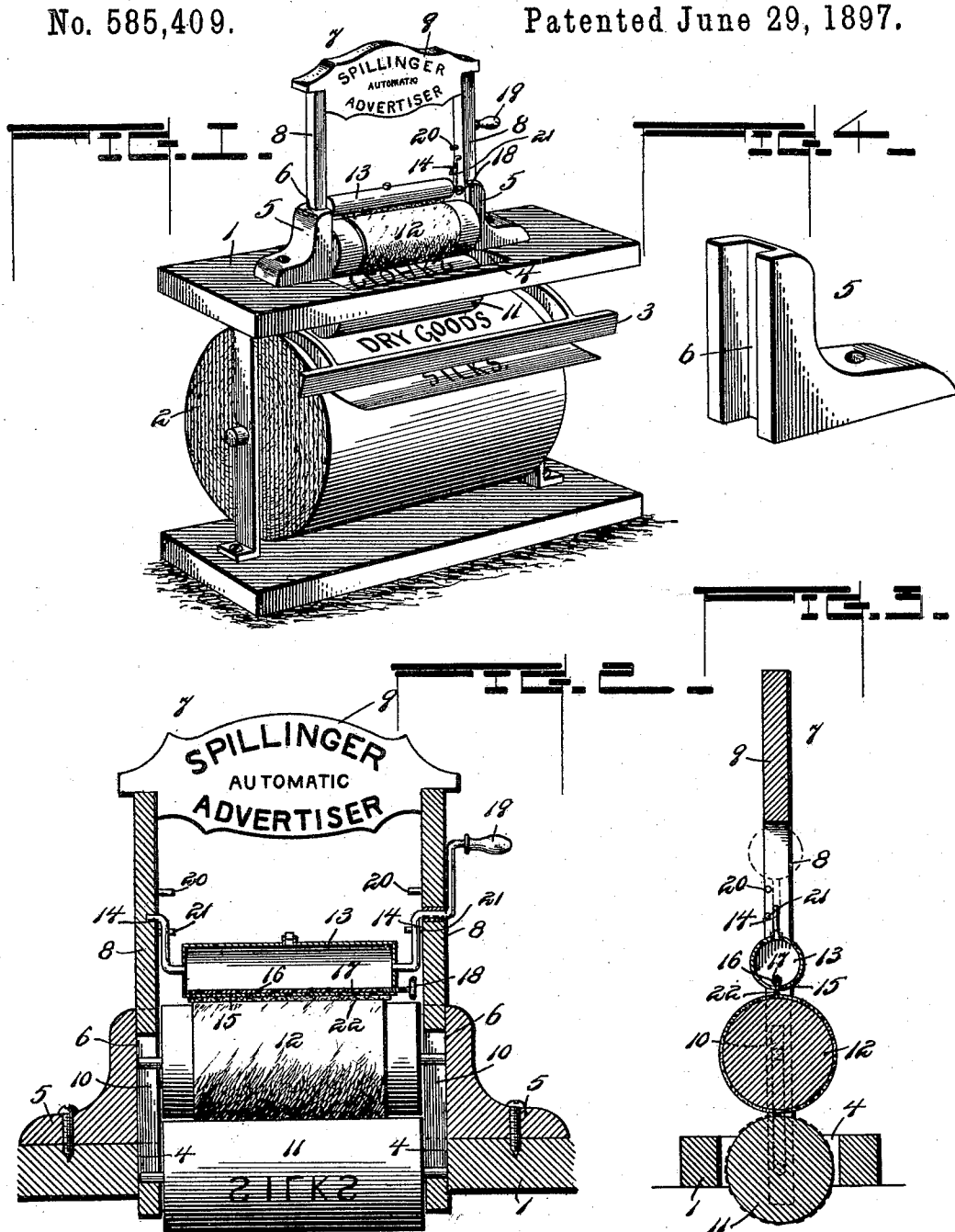
(No Model)

J. SPILLINGER.

AUTOMATIC PRINTING DEVICE FOR PAPER ROLL HOLDERS.

No. 585,409.

Patented June 29, 1897.



Inventor

Witnesses

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UNITED STATES PATENT OFFICE.

JOSEPH SPILLINGER, OF PHILADELPHIA, PENNSYLVANIA.

AUTOMATIC PRINTING DEVICE FOR PAPER-ROLL HOLDERS.

SPECIFICATION forming part of Letters Patent No. 585,409, dated June 29, 1897.

Application filed March 5, 1897. Serial No. 626,033. (No model.)

To all whom it may concern:

Be it known that I, JOSEPH SPILLINGER, a citizen of the United States, residing at Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented a new and useful Automatic Printing Device for Paper-Roll Holders, of which the following is a specification.

The invention relates to improvements in automatic printing devices for paper-roll holders.

The object of the present invention is to provide for paper-roll holders a simple, inexpensive, and efficient printing device which will be purely automatic in its operation and which will be readily applicable to the ordinary construction of paper-roll holders without necessitating any material change in the construction thereof.

A further object of the invention is to improve the construction of the inking device and to provide one which will enable the flow of ink to be readily regulated and entirely cut off, when desired, in such a manner that there can be no leakage of the ink after business hours when the device is not in use.

The invention consists in the construction and novel combination and arrangement of parts, as hereinafter fully described, illustrated in the accompanying drawings, and pointed out in the claim hereto appended.

In the drawings, Figure 1 is a perspective view of an automatic printing device constructed in accordance with this invention. Fig. 2 is an enlarged vertical sectional view of the printing device, the section being taken longitudinally of the rolls. Fig. 3 is a similar view taken transversely of the rolls, the ink-reservoir being down in full lines and thrown back in dotted lines. Fig. 4 is a detail view of one of the guide-brackets.

Like numerals of reference designate corresponding parts in all the figures of the drawings.

1 designates the top of a paper-roll-holder frame, which has a paper roll 2 detachably journaled in it in the usual manner and which is provided with a cutter 3 to enable the paper to be severed from the roll in the usual manner. The top 1 is provided with a central rectangular opening 4, and at opposite sides thereof are mounted guide-brackets 5,

which are provided at their inner faces with vertical grooves 6, forming ways for a vertically-movable printing-frame 7.

The printing-frame, which is composed of vertical sides 8 and a connecting top piece 9, has the former arranged within the vertical ways of the guide-brackets, and the connecting-top piece, which is preferably ornamental, as shown, is designed to afford a convenient place for the names of the persons selling or handling the device and adapted to add sufficient weight to the frame to produce the proper impression of the type on the paper of the roll.

The sides 8 of the vertically-movable printing-frame are provided with longitudinal slots 10, which receive the journals of a lower printing-roll 11 and an upper inking-roll 12. The printing-roll, which is provided with suitable type, is arranged in contact with the roll of paper and automatically adjusts itself to the same as the paper is used, and the act of unrolling the paper produces a rotation of the printing-roll and a consequent impression of the type on the paper.

The printing-roller, which is provided with a suitable surface or pad, is supplied with ink from a cylindrical reservoir 13, which is provided at its ends with cranks 14, journaled on the sides of the vertically-movable frame to enable the ink-reservoir to be inverted for the purpose hereinafter described.

The cylindrical ink-reservoir 13 is provided at its bottom with a longitudinal series of perforations 15, which permit the discharge of the ink when corresponding perforations 16 of an adjustable rod 17 are made to register with them. The rod 17, which is arranged on the inner face of the bottom of the reservoir, is adapted to slide longitudinally thereof to carry the perforations 16 to and from the perforations 15 to open and close the ink-passages, and it is controlled by an adjusting device 18, consisting, preferably, in threading the outer end of the rod 17 and in providing a hand-wheel for the same. By this construction the rod is adapted to be rotated and moved longitudinally sufficiently to close the ink-passages, but any other suitable adjusting device may be employed, if desired.

By giving the rod 17 a quarter-turn the perforations thereof will be carried out of regis-

ter with the perforations of the reservoir, but several rotations of the rod 17 will move the same longitudinally sufficiently out of line with the perforations of the reservoir to prevent any liability of the rod slipping and accidentally causing the perforations to register or partially register. The longitudinal adjustment of the rod also enables the size of the discharge-openings to be regulated by causing the perforations to register fully or partially.

One of the cranks 14 is extended through the adjacent side of the vertically-movable frame and is provided with a handle 19, by means of which the cylindrical reservoir is partially rotated to invert it to the position illustrated in dotted lines in Fig. 3 of the accompanying drawings to prevent any liability of ink leaking out of the reservoir when the device is not in use. The frame is provided with upper and lower stops 20 and 21, arranged to engage the adjacent crank of the ink-reservoir to form a support for the latter when inverted and to retain the reservoir centrally over the inking-roll. The reservoir is provided at its bottom with a suitable strip 22 of fabric, which is adapted to spread the ink uniformly over the inking-roll.

It will be seen that the device is simple and comparatively inexpensive in construction, that it is positive and reliable in operation, and that it is capable of automatically adjusting itself so as to engage a roll of paper properly to produce a perfect impression. It

will also be apparent that it is readily applicable to the ordinary construction of paper-roll holders and simply necessitates cutting an opening in the top of the frame. Furthermore, it will be seen that a simple and effective inking device is provided, and that when the device is not in use the reservoir may be inverted to prevent any liability of the ink leaking.

What I claim is—

In a device of the class described, the combination with a paper-roll holder, of a vertically-movable automatically-adjustable frame mounted on the same, printing and inking rolls carried by the vertically-movable frame, an ink-reservoir provided at its bottom with perforations and having cranks at its ends journaled on the vertically-movable frame, a handle connected with one of the cranks and adapted to rotate the reservoir to invert the same, stops mounted on the vertically-movable frame for holding the reservoir in its operative and inverted positions, and an adjustable rod arranged within the reservoir and adapted to open and close the perforations thereof, substantially as described.

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

JOSEPH SPILLINGER.

Witnesses:

JOHN HAMILTON SIGGERS,
FRANCES PEYTON SMITH.