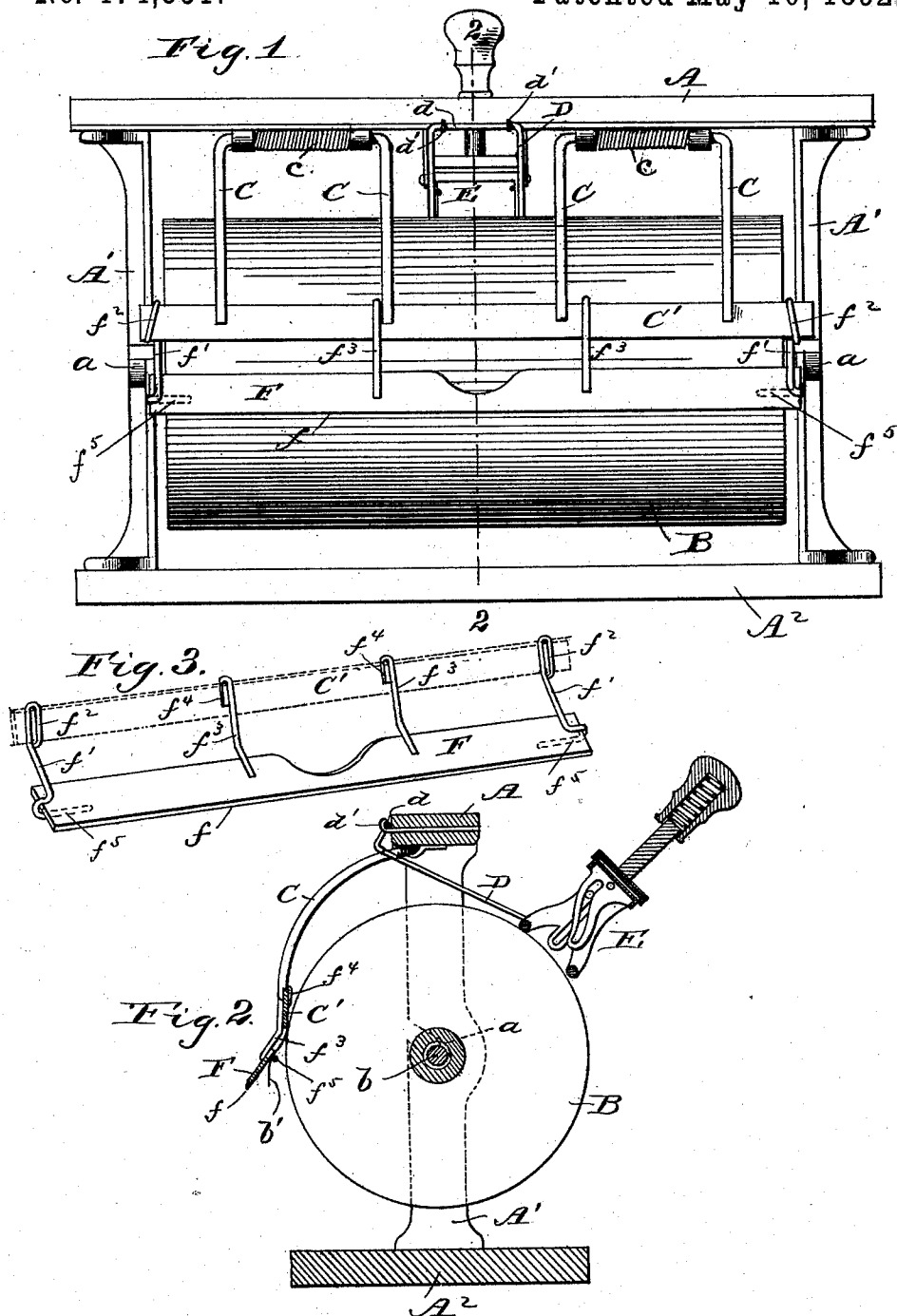


(No Model.)

E. C. FORD & G. T. JACOBS.
ROLL PAPER HOLDING AND SEVERING MACHINE.

No. 474,551.

Patented May 10, 1892.



Witnesses:-
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UNITED STATES PATENT OFFICE.

EDWARD C. FORD AND GEORGE T. JACOBS, OF WASHINGTON, DISTRICT OF COLUMBIA.

ROLL-PAPER HOLDING AND SEVERING MACHINE.

SPECIFICATION forming part of Letters Patent No. 474,551, dated May 10, 1892.

Original application filed May 13, 1889, Serial No. 310,507. Divided and this application filed May 12, 1890. Serial No. 351,449. (No model.)

To all whom it may concern:

Be it known that we, EDWARD C. FORD and GEORGE T. JACOBS, citizens of the United States, residing at Washington, in the District of Columbia, have invented certain new and useful Improvements in Roll-Paper Holding and Severing Machines; and we do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

Our present invention relates to certain improvements in roll-paper holding and severing machines whereby the paper may be more easily grasped, unwound from the roll, and drawn against the knife and whereby each piece of paper so separated from the roll may be imprinted with the dealer's name or any desired advertisement.

To these ends our invention consists in certain parts and combinations thereof herein-after more particularly set forth and claimed, it being understood that we claim not only the specific construction which for the sake of illustration we have shown, but also any equivalent parts or combinations, though they may differ somewhat in construction or operation.

This application is in part a division of that filed by us May 13, 1889, Serial No. 310,507.

In order to make our invention more clearly understood, we have shown in the accompanying drawings means whereby it may be carried into practical effect.

In said drawings, Figure 1 is a front elevation of a roll-paper holding and severing machine embodying our improvements. Fig. 2 is a sectional view on line 2 2 of Fig. 1. Fig. 3 is a perspective detail view of the attachable severing-knife.

Referring to the drawings, A is a longitudinal frame-piece supported by posts A', in which are formed bearings a. The lower ends of the posts are secured to a base-piece A² or may be screwed to a counter or to a wall.

B is the roll of paper, having a longitudinal axis b, the ends of which rest in the bearings a.

C indicates arms pivotally secured to the frame-piece A or other equivalent part of the

machine and carrying at their free ends a longitudinal bar C', adapted to bear upon the surface of the roll. D indicates similar arms also pivotally mounted upon said frame-piece, but projecting to the side opposite to arms C, where upon their free ends they carry a stamp E, which is spring-actuated and of the self-inking type. It will be seen that the operation of this stamp will serve to impress upon the piece of paper to be used before it is drawn from the roll and under the bar C⁵ the dealer's name, business, and address or any desired advertisement. The arms D have a longitudinal connecting-piece or bail d, which rests in open hooks d' and forms the pivotal mounting above referred to by which the stamp is enabled to follow upon the diminishing roll and always rest in operative position upon its surface. By lifting the bail d from the hooks d' the stamping device may be readily removed from the machine for re-inking, change of imprint, change of paper-roll, or other purpose.

The arms C already referred to are preferably spring-actuated, as by springs c, to press the bar C' firmly upon the roll. This bar has been heretofore employed as the severing-knife; but considerable difficulty and annoyance has been experienced in obtaining a hold upon the edge of the paper to draw the desired piece from the roll. It has been generally necessary to place the hand upon the roll and turn it sufficiently to bring the free edge of the paper from under the bar C'; but this is inconvenient in that the roll is usually too large for the hand to obtain a hold upon it and also objectionable in that the users' hands are often from the necessities of their business soiled or greasy and dirty the paper. According to our improvements we employ the bar C' simply as a tension-bar and apply thereto an attachment consisting of a severing-knife held at a distance from the surface of the roll. Such knife is indicated at F, provided with a cutting-edge f and with means, such as bent arms or clasps, whereby it can readily be attached to the bar C' and held with its edge f out at a distance from the roll. The edge where the paper was last severed is thus a free edge, as seen at b', which may

readily be grasped to draw off the next desired quantity.

The arms or clasps may be obviously of different constructions. We prefer to employ
 5 end clasps or arms f' , having loops f^2 , which surround the ends of the bar C' , and intermediate arms f^3 , having open hooks f^4 , to the application of which to the middle portion of the bar C' the arms C afford no obstacle. In
 10 applying a knife with these forms of clasps to the bar C' the loop f^2 at one end is passed over the corresponding end of the bar. The knife is then moved longitudinally till the other loop f^2 is carried beyond the other end of the bar. The hooks f^4 are then brought into
 15 place to engage the edge of the bar, and the knife is then slid back longitudinally to a central position, thus causing the other loop f^2 to pass over the corresponding end of the bar.
 20 The loops and hooks fit with sufficient tightness, being preferably of spring-wire, to keep the knife in its proper central position. We prefer to support the free edge b' of the paper, so that it may not fall down against or cling to
 25 the surface of the roll. To this end supporting-fingers f^5 are provided below the knife F , between which latter and said fingers the paper passes, as indicated in Fig. 2. These fingers may be held in place in any desired
 30 manner, but are conveniently and preferably carried by the knife F and may be formed by extensions of the wire arms f' , as shown in the drawings.

Having thus described our invention, what
 35 we claim, and desire to secure by Letters Patent of the United States, is—

1. In a roll-paper holding and severing machine, the combination, with the longitudinal frame-piece A and means for supporting
 40 the axis of the roll, of the spring-actuated

arms mounted upon said frame-piece, the bar carried by the free ends of said arms and adapted to engage the surface of the roll, an attachable knife adapted to be mounted upon said bar and held at a distance from
 45 the roll, arms D , mounted upon the frame-piece A , and the stamp carried by the latter arms and adapted to rest upon the surface of the roll, substantially as set forth.

2. The herein-described attachable severing-knife for a roll-paper-holding machine, adapted to be mounted upon the spring-actuated bar of the machine and held at a distance from the surface of the roll, substantially as set forth.

3. The herein-described attachable knife, having arms whereby it may be mounted upon the longitudinal bar of a roll-paper holding and severing machine and held at a distance from the surface of the roll, substantially as
 55 set forth.

4. The combination, with means for supporting the axis of the roll, of a pivoted bar against which the surface of the roll is adapted to bear and the attachable and removable
 65 knife carried by said pivoted bar, substantially as set forth.

5. The combination of the bar C' , knife F , and fingers $f^2 f' f^3$, adapted to engage the bar C' and to support the paper, substantially as
 70 set forth.

6. A severing-knife adapted to be attachably and detachably mounted upon the ordinary cutter-bar of a roll-paper holder and cutter.

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