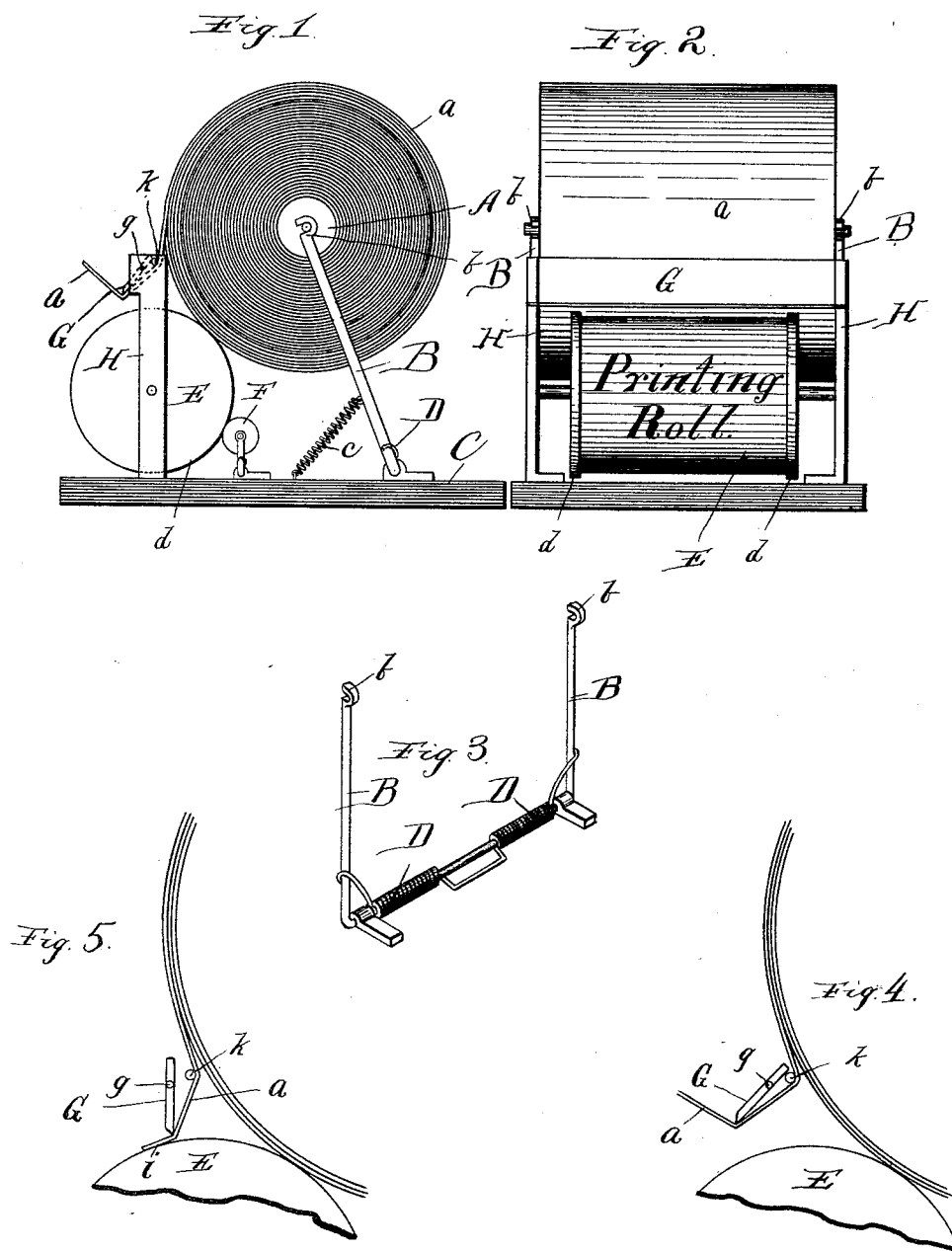


(No Model.)

G. L. KENNEDY.
PAPER ROLL HOLDER AND PRINTER.

No. 410,593.

Patented Sept. 10, 1889.



Witnesses:
Lew. C. Curtis
H. Munday.

Inventor:
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UNITED STATES PATENT OFFICE.

GUY L. KENNEDY, OF CHICAGO, ILLINOIS, ASSIGNOR, BY MESNE ASSIGNMENTS,
TO THE MERCHANTS ROLL PAPER SUPPLY COMPANY, OF SAME PLACE.

PAPER-ROLL HOLDER AND PRINTER.

SPECIFICATION forming part of Letters Patent No. 410,593, dated September 10, 1889.

Application filed June 29, 1888. Serial No. 278,555. (No model.)

To all whom it may concern:

Be it known that I, GUY L. KENNEDY, a citizen of the United States, residing in Chicago, in the county of Cook and State of Illinois, have invented a new and useful Improvement in Paper-Roll Holders and Printers, of which the following is a specification.

This invention relates to self-printing paper-roll holders; and its object is the production of a very simple and efficient form of the machine, wherein the proper tension is maintained upon the unwound paper to prevent its becoming loose on the roll, and the roll and type-wheel are kept in constant contact, notwithstanding the gradual lessening in size of the roll. In my improved holder I support the roll of paper in open bearings in the upper ends of a swinging U-frame, which is preferably inclined from the vertical toward the type-wheel, so that the gravity of the roll will aid in preserving the contact with the wheel. I also attach springs to the swinging frame, which will tend to increase the pressure by the paper roll upon the type-wheel.

In the drawings, Figure 1 is a side and Fig. 2 a front elevation, of my present invention. Fig. 3 is a perspective of the spring-frame for supporting the paper roll, showing the same detached. Figs. 4 and 5 illustrate the different positions of the swinging knife.

In said drawings, A represents the cylinder or spool upon which the paper is wound, and *a* represents the web of the paper being drawn off. The cylinder is supported in the open bearings *b* of an inclined swinging frame B, pivotally held to the table C, and acted upon at all times by one or more coil-springs D, which tend to force the upper ends of the frame toward the type-wheel.

If the weight of the paper roll and the springs just mentioned are not sufficient to keep the roll in constant contact with the type-wheel, the springs *c* may be used as a supplement; but if the arms of the frame are inclined, as in Fig. 1, it will generally be found that the supplemental springs are unnecessary. They may, however, be substituted for the springs D.

The printing or type wheel is shown at E, and it is provided with type and rims *d* in the usual manner, such rims being in constant contact with the paper, and the type being also high enough to touch the same as they pass. With this construction the type-wheel rotates with each movement of the paper roll.

Ink is supplied to the type-wheel by the spring-pressed roller F, which may be mounted in a frame somewhat similar to that used for the paper roll.

G is the swinging knife. It is provided with end pivots *g*, having bearings in the standards H, the latter also stationarily supporting the type-wheel. The pivots *g* are located near the central line of the knife, and when the paper is drawn upon the lower edge of the knife swings outward, as shown at Figs. 1 and 4, and each time the paper is severed the knife swings back by gravity into the position shown at Fig. 5, the same being its normal position. In thus swinging back the knife leaves a margin of the paper hanging below it, as shown at *i*, and this margin is convenient to take hold of when more paper is desired to be drawn off.

A stop *k*, or some equivalent means, should be employed to limit the outward swing of the knife.

The operation of the machine will be fully apparent from what has been said.

I claim—

1. In a printing paper-roll holder, the combination of a roll-supporting cylinder mounted in a swinging frame with a stationarily-journaled type-wheel against which the roll rests, whereby the roll is rendered automatic in retaining its contact with said wheel, substantially as specified.

2. The combination, with a paper-roll cylinder, a swinging frame supporting said cylinder, and springs acting upon said frame, of a stationarily-journaled type-wheel against which the roll rests, substantially as specified.

3. The printing paper-roll holder consisting of a cylinder for carrying the paper, a spring-depressed frame supporting said cyl-

inder with the paper resting in constant contact with the type-wheel, the type-wheel, and a knife for severing the paper, substantially as specified.

- 5 4. In a paper-holder, the combination of a revoluble printing-roller and a core for supporting a roll of paper, the latter situated

above and resting upon said printing-roller and removable without disturbing the printing-roller, substantially as described.

GUY L. KENNEDY.

Witnesses:

H. M. MUNDAY,
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