

(No Model.)

K. ELLERMAN.
ROLL PAPER HOLDER AND CUTTER.

No. 423,228.

Patented Mar. 11, 1890.

Fig. 1.

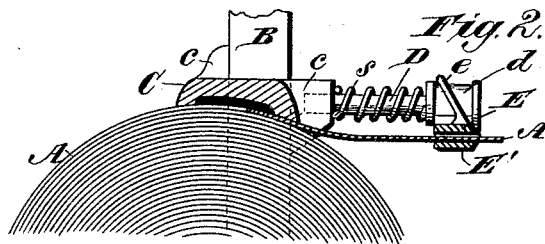
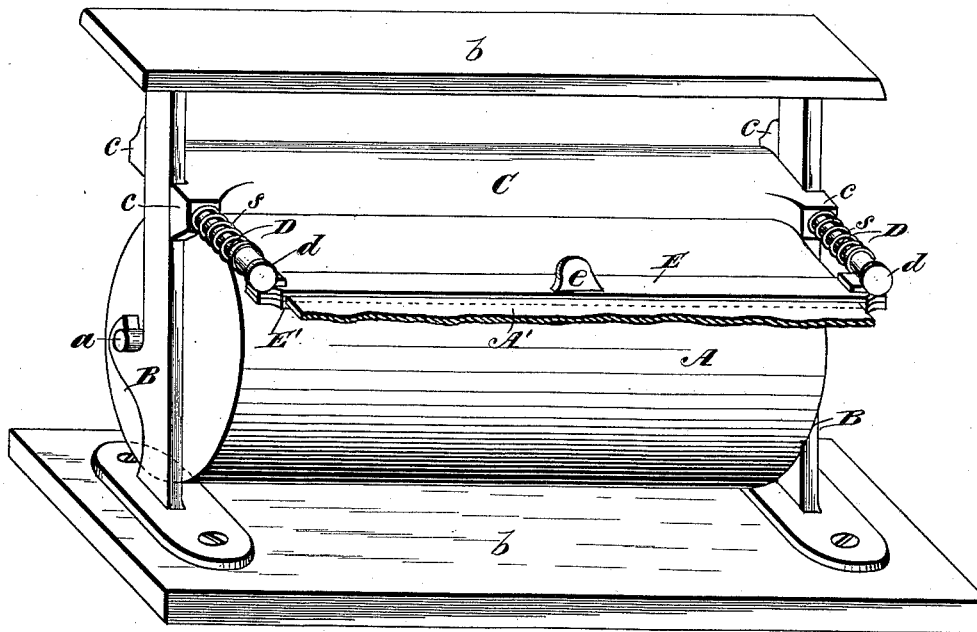
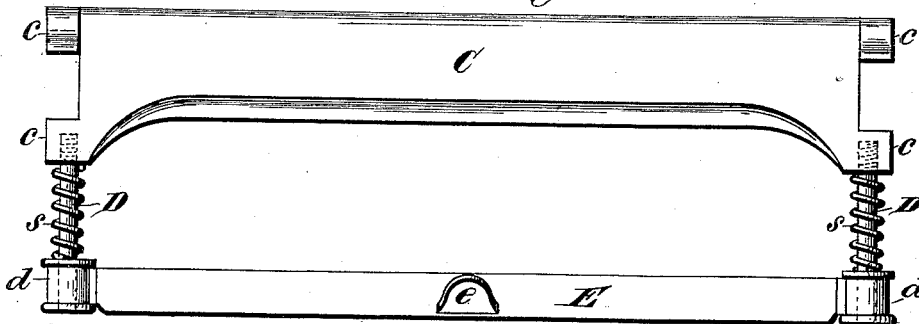


Fig. 3.



Witnesses:
Robert Emmett,
J. C. Meyers Jr.

Inventor:
Karl Ellerman
By K. M. Horea
Atty.

UNITED STATES PATENT OFFICE.

KARL ELLERMAN, OF CINCINNATI, OHIO..

ROLL-PAPER HOLDER AND CUTTER.

SPECIFICATION forming part of Letters Patent No. 423,228, dated March 11, 1890.

Application filed July 19, 1889. Serial No. 318,087. (No model.)

To all whom it may concern:

Be it known that I, KARL ELLERMAN, a citizen of the United States, residing at Cincinnati, Ohio, have invented new and useful Improvements in Roll-Paper Holders and Cutters, of which the following is a specification.

My invention relates to roll-paper holders and cutters, its object being to provide a holder for the paper in rolls with a suitable brake device and cutting-bar, and constructed and arranged so as to facilitate the grasping of the severed edge of the paper for a renewed hold, and also to facilitate the tearing of the paper by a pull either upward or downward.

To this end the invention consists in combining, with a roll-stand and a brake-bar held upon or against the surface of the roll by gravity or a spring, of an adjustable tearing-bar over or under which the free end of the paper roll passes, held outward automatically by a spring or other force, and adapted to be pushed inward, leaving the end of the paper strip projecting. As preferably constructed, the tearing-bar is duplicated and the paper passes and is guided between, so that the tearing may be effected by a pull against either.

Mechanism embodying my invention is illustrated in the accompanying drawings, in which—

Figure 1 is a perspective elevation of a paper-roll holder and cutter complete embodying my invention; Fig. 2, a detail end view showing the brake-bar guided upon the roll-stand standards, the tearing-bar guides, the tearing-bars engaged therewith, and the springs; and Fig. 3 is a plan view of a brake-bar and connections.

Referring now to the drawings, A designates the paper roll; B B, the standards in which the same is mounted upon its axlejournals *a a*. The standards B B, connected by top and bottom braces *b b*, constitute the roll-stand entire. C designates a floating or gravity brake-bar resting upon the top of the paper roll and following it downward, maintaining the same relative position as the roll diminishes in size, being held and guided between and upon the parallel standards B B by means of the end projections or lugs *c c* of the brake-bar. These parts constitute the well-known "gravity-bar" cutters in common

use, and I have selected it as a convenient type of machines to illustrate my invention; but it will be obvious hereinafter that the invention may be applied to brake-bars actuated by springs or arranged in any other manner.

As here illustrated, however, my invention consists in mounting the tearing-bar E upon guides D D, projected forward rigidly from the brake-bar horizontally, or approximately so, near the ends. The bar E is provided at or near its ends with sliding sleeves *d*, by which it is held and moved upon the parallel guide-studs D D. Spiral springs *s*, placed upon the studs D behind the sleeves *d*, hold the tearing-bar E normally in its outer position. Centrally upon the top of the bar E, I place a small thumb-piece *e*, extending upward. If, now, a suitable holding-bar—for example, a wire—is placed beneath and parallel with the bar E, leaving space sufficient for the free passage of the paper, and the lower outer edge of the bar E be formed to an acute angle to constitute a tearing-edge, the device will be operative for tearing the paper upward; but I prefer to make the lower guide an inverted duplicate E' of the tearing-bar E, so that the paper may be torn by a pull either up or down.

The action of the device is as follows: In all or nearly all of this type of roll-paper cutters there is no provision for projecting the end of the strip of paper forward under the cutting-bar to retain a renewed hold. In my invention, as will be seen, when the hand is pressed toward the roll in position ready for grasping, the thumb pressing against the thumb-stop *e* presses back the tearing bar or bars, while the stiffness of the paper causes the end of the strip A' to project by simply remaining in its original position, thus enabling the attendant to obtain a firm grip. The thumb-stop *e* is not essential, and may be omitted, as indicated in Fig. 3.

I claim as my invention and desire to secure by Letters Patent of the United States—

1. In combination with a roll-paper holder, an adjustable tearing-edge automatically held in its outer position for tearing, but adapted to be thrust inward in the act of grasping the end of the paper strip, substantially as set forth.

2. In combination with a roll-paper holder,
a cutter bar or bars adapted to move upon
parallel guides in the direction of the pull for
unwinding from the roll and to be receded in
5 the contrary direction by the attendant in
the act of grasping the paper strip, substan-
tially as set forth.

In testimony whereof I have hereunto set
my hand in the presence of two subscribing
witnesses.

KARL ELLERMAN.

Witnesses:

L. M. HOSEA,
ELLA HOSEA.