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Fig. 1.

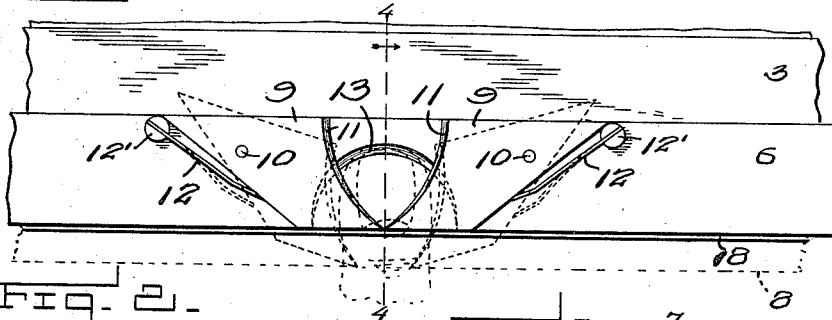


Fig. 2.

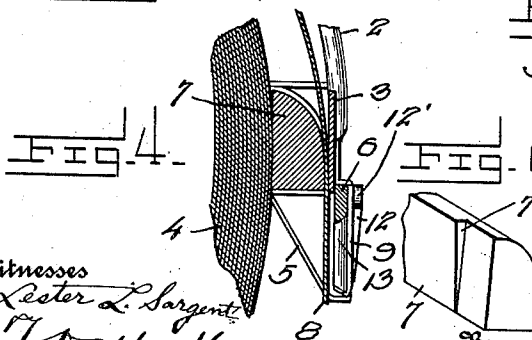
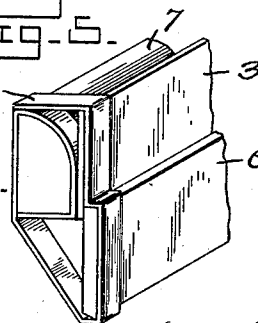


Fig-5.



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UNITED STATES PATENT OFFICE.

MARSHALL O. ROSE, OF PORTLAND, OREGON.

PAPER-CUTTER ATTACHMENT.

1,030,014.

Specification of Letters Patent.

Patented June 18, 1912.

Application filed March 22, 1912. Serial No. 685,545.

To all whom it may concern:

Be it known that I, MARSHALL O. ROSE, a citizen of the United States, residing at Portland, in the county of Multnomah and State of Oregon, have invented a new and useful Improvement in Paper-Cutter Attachments, of which the following is a specification.

The object of my invention is to provide a simple, convenient and durable device which can be readily attached to roll holder paper cutters now in use, or employed for analogous purposes, wherever it may be desirable to provide means for quickly and easily obtaining a finger hold on paper beneath a cutter blade without the necessity of first turning the paper roll with the hand.

It is my purpose to provide this paper cutter attachment in various sizes, suitable for use with the various sizes of roll paper on the market. The proportions of the invention may be varied while retaining unchanged its distinguishing time-saving features.

For a full description of the invention, reference is to be had to the accompanying drawings, which are made a part of this specification.

Figure 1 is a front elevation, in use; Fig. 2 is an enlarged detail view of the finger hold; Fig. 3 is an edge view of same; Fig. 4 is a section on line 4-4 of Fig. 2; Fig. 5 is a perspective view of the end clamp; Fig. 6 is a perspective view of the end of the guide bar.

Corresponding and like parts are referred to in the following description and indicated in all the views of the drawings by the same reference characters.

4 indicates the paper roll.

3 indicates the ordinary cutter plate, attached to the roll-holder rack 1 by the arms 2.

The parts thus named constitute a type of roll paper cutter device now in general use and are not my invention, which consists of the combination of parts hereinafter set forth. When my invention is employed the function of the old-type cutter plate is altered to that of a tie to which my paper cutter attachment is affixed.

As a guide for the paper, I provide a guide bar 7, preferably of wood, and a beveled cutter blade 6, preferably of metal, held in parallel relation as illustrated in the drawings, by clamps 5, which clasp the ends

7' of the guide bar 7 and also clasp the ends of the cutter blade 6. The clamps 5 at the same time provide means for affixing my paper cutter attachment to the old-type of cutter plate, in the manner shown in Fig. 5. The guide bar 7 and the cutter blade 6 are of the same length, but this length may be varied to suit the length of the paper roll with which they are used, my cutter blade ordinarily being about three-fourths of an inch longer than the paper roll, so that the clamps 5 will not come in contact with the paper roll 4. The guide bar 7 is triangular in cross section, with one side curved so that the sheet 8 may slide over it smoothly, the flat side being next to the paper roll. The groove ends 7' (illustrated in Fig. 6) of the guide bar 7 allow the guide bar to be held by the clamps 5 at the proper angle flat against the paper roll 4.

The cutter blade 6, which is held by the clamps 5, laps over the old cutter plate from one-fourth to one-half inch, ordinarily, as illustrated in Fig. 5, thus leaving space for the finger hold. To permit of the sheet 8 of the paper roll 4, beneath the cutter blade 6 being immediately grasped without the necessity of first turning the roll, a large notch 13, beveled so as to present a smooth edge, is provided in the cutter blade, preferably at the middle portion of the blade, as shown in the drawings. A continuous cutting edge bridging the notch 13 is provided for by the plates 9, mounted on the cutter blade 6 by the pivots 10, as clearly illustrated in Fig. 2. The inner curved edges 11 of these oppositely disposed plates 9 are beveled so as to leave a smooth edge for the finger of the operator to press against. The pivoted plates 9 are actuated by springs 12, which are affixed to the cutter blade by slotted plugs 12', so that the pivoted plates will rebound after being pressed out of their normal position of alinement with the cutter blade 6. The plates 9 are provided with a cutting edge turned in or beveled to correspond with the cutting edge of the cutter blade 6. The spring which I prefer to use is flat, about one inch in length, and tapered slightly at the end which presses against the pivoted plate.

The preferred form of my invention is illustrated in the drawings, but I do not limit myself to the precise forms herein shown.

In operation, my paper cutter attach-

ment is affixed to the old type of cutter blade by means of the clamps 5, as shown in Figs. 1 and 5. The sheet 8 of the paper roll 4 is preferably passed over the curved side of the guide bar 7, which thus holds it apart from the roll by about half an inch, as illustrated in Fig. 4. This is for convenience in obtaining a finger hold on the sheet. The sheet is grasped between the thumb and finger of the operator, through notch in the cutter blade. As the clasped thumb and finger holding the paper are pulled down through the notch the plates turn on their pivots, as illustrated by dotted lines in Fig. 2. As soon as the finger of the operator is pulled past them, the springs 12 cause the plates to rebound to their normal position of alinement with the cutter blade 6, thus providing a cutting edge continuous with the beveled edge of the cutter blade, so that a sheet of paper of the desired size may be torn off with facility, making a smooth straight cut.

A minor advantage afforded is that passing the sheet of paper over the guide bar as provided for by my invention tends to prevent the paper roll from turning backward

or winding up after a sheet has been torn off.

I claim:

1. In a device of the kind described, the combination of a notched cutter blade having resiliently-controlled, outwardly-opening members pivotally mounted thereon.

2. The combination of a notched cutter blade, pivotally mounted plates so positioned as to provide a cutting edge across the notched portion of the blade, resilient mechanism actuating the aforesaid plates, and means for attaching the mechanism to a roll holder rack.

3. The combination of a guide bar, an indented cutter blade, clamps holding the guide bar and cutter blade in a parallel position, members pivotally mounted on the cutter blade and positioned over its notched portion, means for attaching said plates to the cutter blade, resilient mechanism actuating the plates, and means for attaching the paper cutting device to a roll holder.

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