

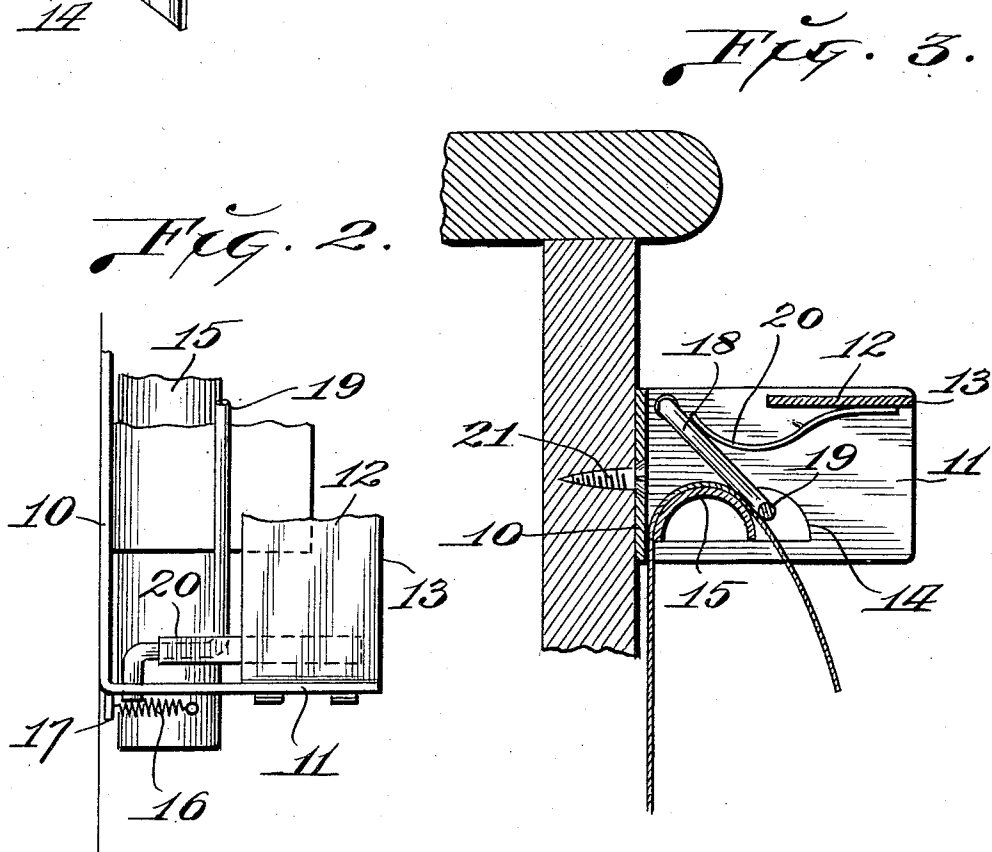
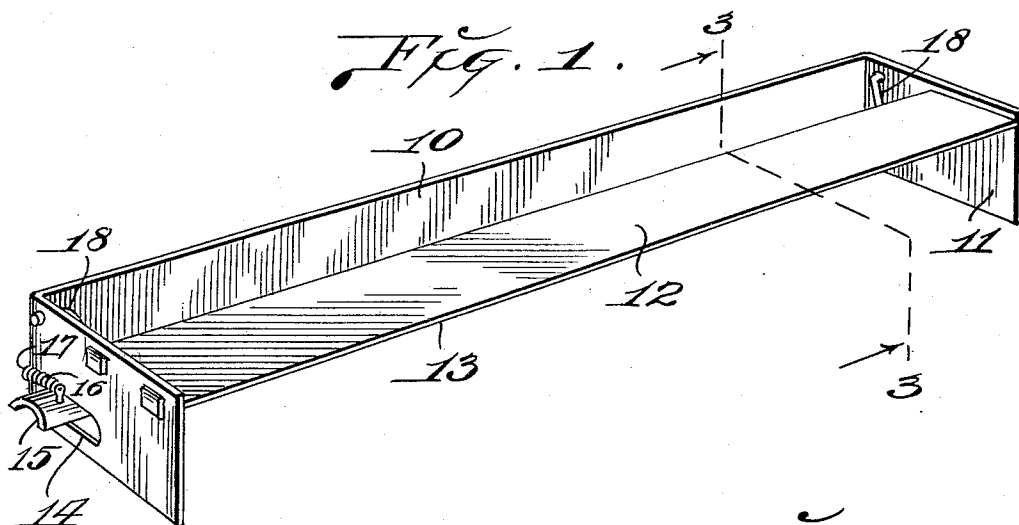
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ROLL PAPER CUTTER

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UNITED STATES PATENT OFFICE

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ROLL-PAPER CUTTER

Application filed June 11, 1928, Serial No. 284,423. Renewed May 24, 1930.

My invention relates to a roll paper cutter, and has for its principal object the provision of a relatively simple, inexpensive and convenient device that is capable of being readily associated with a roll of wrapping paper for supporting the web of the paper as it is unwound from the roll, and said device being provided with a straight edge against which the web of paper may be engaged and cut or torn off.

My present method is an improvement on the roll paper cutter forming the subject-matter of my copending application filed March 22, 1928, Sr. No. 263,637.

Further objects of my invention are to provide a roll paper cutter with a simple but efficient tensioning device that engages the web of paper as it is unwound from the roll so as to prevent the paper from unwinding too freely, a portion of which tensioning device deflects the end of the web of paper downwardly away from the straight edge along which the web is torn, thereby holding the end of the web in position where it may be conveniently grasped by the thumb and fingers when another portion of paper is to be unwound and torn off, and further to provide a roll paper cutter that may be conveniently located on a support above or in front of a roll of paper, and which latter may be mounted at any convenient point, for instance beneath a counter, or on the top, side or end of a counter, show-case or the like.

With the foregoing and other objects in view, my invention consists in certain novel features of construction and arrangement of parts that will hereinafter be more fully described and claimed and illustrated in the accompanying drawing, in which:

Fig. 1 is a perspective view of a roll paper cutter constructed in accordance with my invention.

Fig. 2 is a top plan view of one end of the roll paper cutter.

Fig. 3 is a cross section taken approximately on the line 3—3 of Fig. 1 and showing said holder in position upon a support, such as a counter or show-case.

Referring by numeral to the accompany-

ing drawings which illustrate a practical embodiment of my invention, 10 designates a straight flange plate of metal that forms the body or base of the device, and the end portions of this plate are bent forwardly to form brackets or end walls 11 that are disposed in planes at right angles to the plane occupied by the plate 10.

Secured in any suitable manner to the upper forward portions of the end walls or brackets 11 are the ends of a horizontally disposed plate 12 of metal, having a straight front edge 13 against which the weight of the paper is engaged to be torn off.

Formed in the lower rear portions of the end plates or brackets 11 are short horizontally disposed slots 14, and projecting therethrough are the end portions of a half-round tensioning bar 15 that is preferably formed of sheet metal.

Secured to the projecting ends of this tensioning bar are the forward ends of retractile springs 16, the rear ends of which are secured to studs 17 that project outwardly from the rear portions of the end plates 11, and thus the tensioning bar 15 is yieldingly drawn rearwardly through the slots 14 so that the rear lower edge of said tensioning bar occupies a position directly against or immediately adjacent to the face of plate 10.

Journaled in the upper rear corners of the end plates 11 are the outwardly bent end portions of crank arms 18 that are formed on the ends of a pressure bar 19, and which bar occupies a position on top of the front portion of the tensioning member 15.

Bearing on top of the crank arms 18 are the rear portions of springs 20, the forward ends of which are secured in any suitable manner, preferably by spot-welding, to the under-side of the end portions of plate 12.

When my improved roll paper cutter is positioned for use the plate 10 is secured in any suitable manner, preferably by means of screws 21, to a suitable support above a roll of wrapping paper, and the web of paper from said roll extends upwardly between plate 10 and the tensioning member

15, and said web of paper passes over the half-round tensioning member and beneath the pressure bar 19.

Thus under normal conditions the free end of the web of paper projects downwardly and forwardly from the front edge of the tensioning member 15 and the pressure bar that bears thereon and thus the end of the web of paper is conveniently positioned where it may be readily grasped by the thumb and finger when a portion of the paper is to be unwound and torn off.

To unwind a portion of the paper, the web is pulled outwardly against the slight resistance offered by the retractile springs 16 and the pressure of bar 19 that is developed by springs 20, and when the desired amount of paper has been unwound that portion of the paper in front of the device is drawn upwardly until the weight of paper engages against the tearing edge 13, and then by a sidewise or lateral movement the unrolled portion of the paper is torn off by engagement with the tearing edge 13. After the unwound portion of the paper has been torn off, as just described, the tensioning member 15, which has been drawn forwardly by the pull on the web of paper, will return to its normal rearward position to press the paper against the plate 10 and the springs 20 will swing pressure bar 19 downward on to the upper front portion of the tensioning member, thus forcing the end of the web of paper downwardly away from the tearing edge where said end may be conveniently engaged to effect a subsequent unrolling and tearing operation.

The ends of the tensioning member 15 extend short distances beyond the end plates 11 in order that they may be manually engaged to force said tensioning member forwardly when the end or web of a roll of paper is threaded through the cutter.

A roll paper cutter of my improved construction may be conveniently associated with the ordinary or standard forms of roll paper holders or said cutter may be attached to a convenient support above or in front of a roll of paper that is mounted for rotation in suitable supports or bearings.

Thus it will be seen that I have provided a roll paper cutter that is relatively simple in construction, inexpensive of manufacture, and which is very effective in performing the functions for which it is intended.

It will be understood that minor changes in the size, form and construction of the various parts of my improved roll paper cutter may be made and substituted for those herein shown and described without departing from the spirit of my invention, the scope of which is set forth in the appended claims.

I claim as my invention:

1. In a roll paper cutter, a frame, a plate

supported in said frame and provided with a straight tearing edge, a tensioning member arranged for horizontal sliding movement in the lower portion of said frame, yielding pressure means associated with said tensioning member for normally forcing the same against the frame, and a spring pressed pressure bar arranged above and bearing upon said tensioning member.

2. In a roll paper cutter, a frame comprising a back plate and end plates, a tensioning member supported for sliding movement upon the end plates, springs for normally urging the tensioning member against the back plate of the frame, a plate arranged between the end plates of the frame and provided with a tearing edge, and a pressure bar pivotally mounted on said end plates and bearing on the upper front portion of said tensioning member.

3. In a roll paper cutter, a frame comprising a back plate and end plates, a spring holding tensioning member arranged for sliding movement on the end plates and normally bearing against the back plate, said tensioning member being substantially half-round in cross section, and a pressure bar pivotally mounted on the end plates and bearing on the upper front portion of said tensioning member.

4. In a roll paper cutter, a frame comprising a back plate and end plates, a spring holding tensioning member arranged for sliding movement on the end plates and normally bearing against the back plate, said tensioning member being substantially half-round in cross section, a pressure bar pivotally mounted on the end plates and bearing on the upper front portion of said tensioning member, and a plate arranged between the upper front portions of the end plates and provided with a separate front edge.

5. In a roll paper cutter, a frame, a spring held tensioning member arranged for horizontal sliding movement in said frame, which tensioning member is substantially half-round in cross section, and a pressure bar bearing on the front upper portion of said tensioning member.

In testimony whereof I affix my signature.
JAMES W. McCLINTOCK.