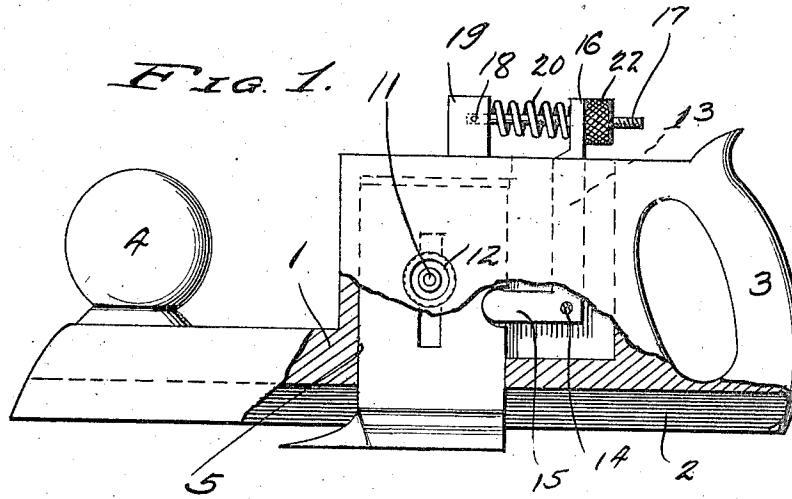
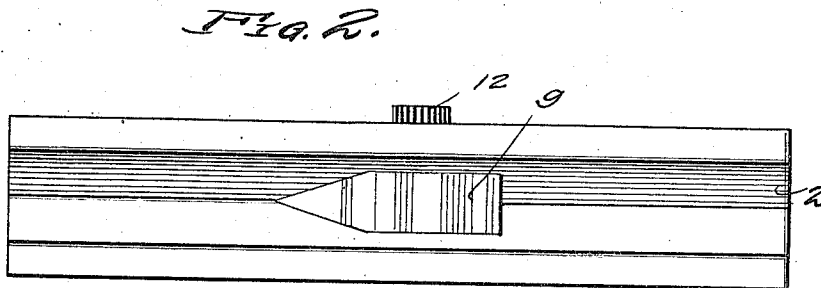
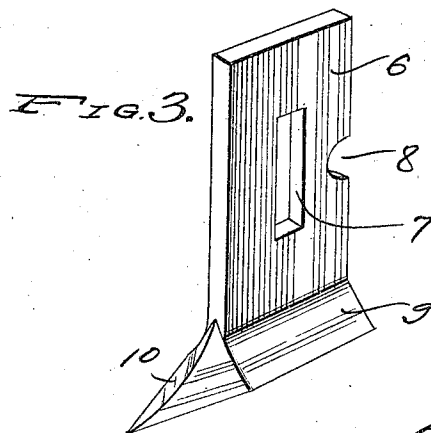


A. ROWDEN AND R. A. HAFFORD.
PAPER CUTTER.
APPLICATION FILED NOV. 26, 1918.

1,307,151.

Patented June 17, 1919.



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UNITED STATES PATENT OFFICE.

ALBERT ROWDEN AND ROSCOE A. HAFFORD, OF GROVETON, NEW HAMPSHIRE.

PAPER-CUTTER.

1,307,151.

Specification of Letters Patent. Patented June 17, 1919.

Application filed November 26, 1918. Serial No. 264,269.

To all whom it may concern:

Be it known that we, ALBERT ROWDEN and ROSCOE A. HAFFORD, citizens of the United States, residing at Groveton, in the county of Coos and State of New Hampshire, have invented certain new and useful Improvements in Paper-Cutters, of which the following is a specification.

This invention relates to cutting implements, and more especially to those which travel over the material cut; and the object of the same is to produce a cutter especially intended to cut paper when in roll form. It is well known that in paper mills there are many large rolls of paper that are too poor for the market, and therefore, they have to go through the paper engine again. In order to put this paper through the feeders, it must be cut off the roll and put through again two or three sheets at a time. It is quite difficult to cut paper off a roll where it is tightly wound thereon, and the ordinary method is to run a sharp knife or tool under several sheets, cutting them from the roll by hand. This is a laborious process, and the primary object of the present invention is to produce a tool by which it can be done and much time saved.

For details we refer to the following specification and claim and to the drawings herewith, and in which

Figure 1 is a side elevation of this tool partly in section.

Fig. 2 is a bottom plan view.

Fig. 3 is a detailed perspective of the cutter.

The tool is much like an ordinary hand plane. It comprises a body or base 1 having a V-shaped channel 2 along its cutting face, a handle 3 at its rear end, and an upstanding knob 4 forming a handle at its front end. The forward portion of the body or base is low and substantially flat, whereas the rear portion is raised and contains a chamber 5 which in the present instance is shown as substantially rectangular. This contains the shank 6 of the cutter, best seen in Fig. 3, which shank has an upright slot 7 in its body and a notch 8 in its rear edge. The lower end of the plow carries a V-shaped plow 9 adapted to fit in the channel 2 when the shank of the cutter is raised sufficiently high, and at the front end of the plow is the knife 10. The entire cutter may be of metal, but the knife is highly tempered and sub-

stantially triangular as seen, its edge along the top rising from its tip and being capable of cutting several sheets of tough paper without becoming rapidly dulled.

While any suitable means may be employed for adjusting the position of the cutter, we prefer to pass a set screw 11 through the rear portion of the body 1 of the implement, and provide one end with a knob or nut 12, and after the shank has been placed in the chamber 5, the knob or nut can be tightened to hold it so. For finer adjustments an L-shaped lever 13 is pivoted at 14 within the body of the device, and its front end 15 enters the notch 8 while its other end is pierced for the reception of a screw 17 pivoted at 18 in a lug 19 upstanding from the body as shown in Fig. 1. A spring 20 is preferably interposed between the upper end 16 of the lever and the lug 19 so as to normally press the upper end of the lever to the rear. A nut 22 is threaded onto the screw behind the end 16 and it may be turned up to compress the spring and alter the position of the lever. By this arrangement it is quite obvious that the exact vertical adjustment of the cutter may be obtained, and the cutting point and edge of the plow may be very nicely set, provided only that the nut on the set screw 11 is loosened a trifle before adjustment is attempted, after which it can be set up so as to hold the parts in adjusted position.

In the use of this device, the roll of paper is brought to the workman, or the workman goes to the roll with the tool, and passes it rapidly across the face of the roll on a line parallel with the axis thereof, reciprocating the tool after the manner of an ordinary hand plane. The cutter should be set so that the tip of the knife may run under three or four thicknesses of paper, and after each movement of the device across the roll, the sheets of paper cut thereby are withdrawn and passed along into a receptacle, from which they are carried to the engine for renewed treatment. We find by experience that a tool of this kind may be used a long time without resharpening, and the work is greatly expedited.

Having thus fully described our invention, what we claim as new and desire to secure by Letters Patent is:—

In a paper cutter, the combination with a body having an upright chamber, and a han-

dle thereon; of a cutter adjustably mounted
in said chamber and whose lower end is
formed into a plow of substantially trian-
gular cross section, and a knife at the front
5 end of said plow also of triangular cross sec-
tion and with its flat lower face pointed at
the front end and its cutting edge extending
rearward and upward from said point.

In testimony whereof we affix our signa-
tures in presence of two witnesses.

ALBERT ROWDEN.
ROSCOE A. HAFFORD.

Witnesses:

J. B. MCFARLAND,
W. H. ASHE, Jr.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents,
Washington, D. C."