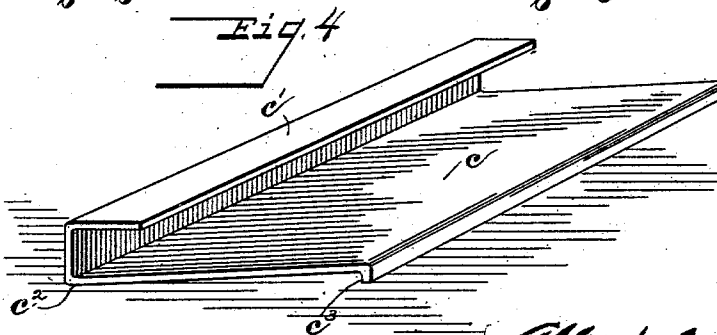
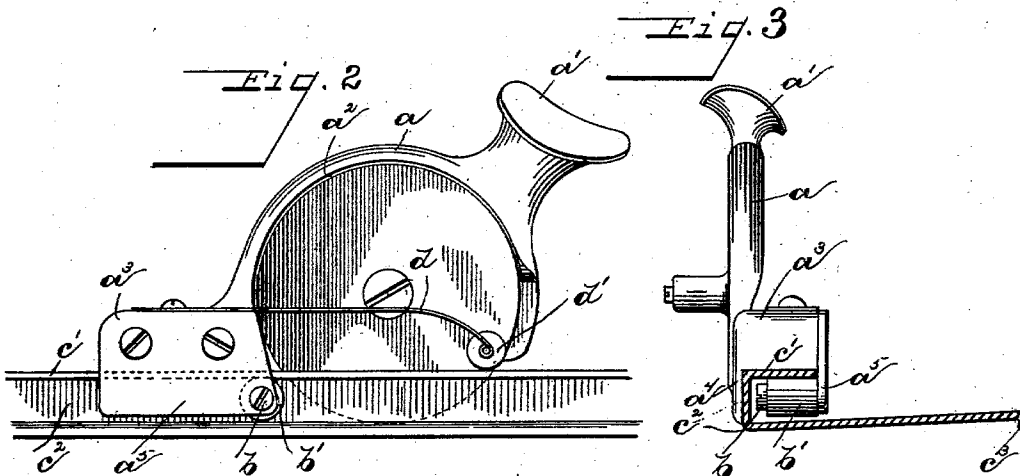
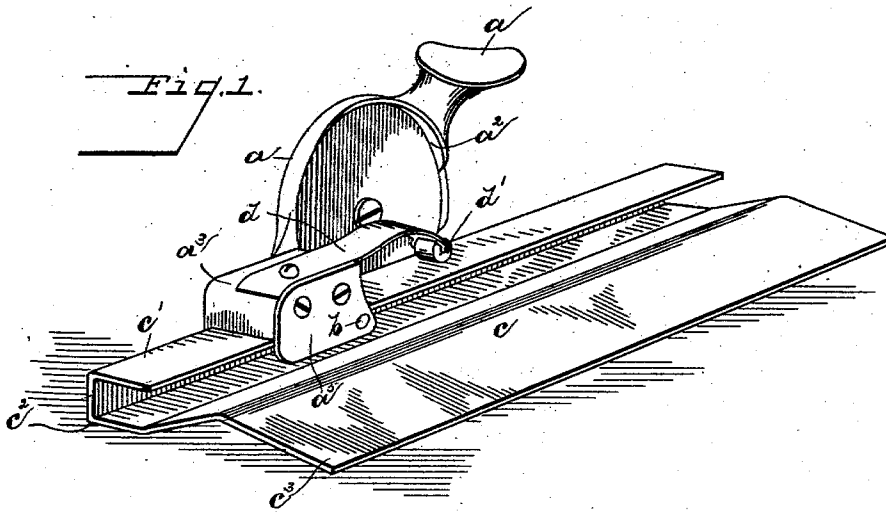


No. 745,515.

PATENTED DEC. 1, 1903.

A. J. PERKS.
PAPER TRIMMER.
APPLICATION FILED OCT. 1, 1903.

NO MODEL.



Inventor

Witnesses
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ALBERT J. PERKS, OF SPRINGFIELD, OHIO, ASSIGNOR TO WEBSTER & PERKS TOOL COMPANY, OF SPRINGFIELD, OHIO, A PARTNERSHIP.

PAPER-TRIMMER.

SPECIFICATION forming part of Letters Patent No. 745,515, dated December 1, 1903.

Application filed October 1, 1903. Serial No. 175,284. (No model.)

To all whom it may concern:

Be it known that I, ALBERT J. PERKS, a citizen of the United States, residing at Springfield, in the county of Clark and State of Ohio, have invented certain new and useful Improvements in Paper-Trimmers, of which the following is a specification.

My invention relates to improvements in devices for trimming the edges of wall-paper and similar uses; and it relates particularly to that class of trimmers designed to be used with a straight-edge or gage to which the trimmer is applied and in connection with which it works.

My invention consists of the constructions and combinations of parts hereinafter described, and set forth in the claims.

In the accompanying drawings, Figure 1 is a perspective view of my improved device shown in position on the support or straight-edge with which it is adapted to work. Fig. 2 is a side elevation of same. Fig. 3 is an end elevation, partly in section; and Fig. 4 is a perspective view of the straight-edge or support slightly modified.

Like parts are represented by similar characters of reference in the several views.

In the drawings, *a* represents a main frame or supporting-head, which is preferably cast or otherwise formed integrally with a handle *a'*, a knife-receiving recess *a''*, and a backwardly-extending gage and spring-support *a'''*. This gage or spring-support *a'''* is provided on one side with a depending flange *a¹* and on the other side with a similar depending flange *a²*, the latter, however, being preferably formed separate from the main body and secured thereto by screws or otherwise for convenience in manufacture and assembling. Secured to the flange *a²* and adapted to extend inwardly parallel with the bottom of the gage portion *a'''* there is a spindle *b*, which carries a roller *b'*, the distance between the upper periphery of the roller *b'* and the lower surface of the gage portion *a'''* being sufficient to admit the flange *c'* of the straight-edge or support *c*. From the top of the gage or support *a'''* there extends forwardly a flat spring *d*, in the end of which is journaled a roller *d'*. This spring *d* is made of such shape and length that the roller contacts at

all times with the top of the flange *c'* when the device is in position for operation, and when in this position the spring *d* is under tension. The spring is of such length and shape that the roller contacts with the flange at a point between the handle *a'*, where the power is applied, and the roller *b'*, the construction being such that with the spring under tension there is a tendency to tip the main frame forwardly and seat the gage *a'''* squarely upon the flange *c'*, with the roller *b* pressed upwardly on the under side of the said flange *c'*. The roller *d'* in the end of the spring, however, being located between the gage and the point where power is applied—that is, the handle *a'*—when pressure is exerted on said handle the tendency will be to tip the frame about the roller *b'*. This, however, will be resisted by the roller *d'*, and as the spring is pressed the rear portion of the gage will be elevated, turn on the roller *d'* as a pivot, and the entire tension of the spring with the pressure exerted thereon will be received and divided between the rollers *d'* and *b'*, so that the device will be practically relieved from friction in the operation.

The straight-edge or support which I preferably use in connection with this device is made of metal, preferably of a single integral piece, the main body of which is bent to form bearing edges *c²* and *c³* at each side thereof and then bent upwardly to form the flange *c'*, on which the cutter is carried.

By this construction I provide a very simple cutting-outfit. The metal which I prefer for the straight-edge is aluminium, making a very light stiff support or straight-edge, not liable to the shrinkage and swelling which affects the accuracy of wood in straight-edges. The placing of the roller *d'* in the end of the spring and balancing the forces upon the rollers *d'* and *b'* renders the device of very light operation and practically removes all friction from the same when it is in use or in the act of cutting.

Having thus described my invention, I claim—

1. The combination with the straight-edge or support formed of a single piece of metal, the main body of which has a bearing-surface on each side as described, and the inwardly-

projecting flange supported by the upturned edge or web, and a cutter having a gage portion to embrace said flange, a roller under said flange and a spring also provided with a roller on the upper portion of said flange, substantially as and for the purposes specified.

2. In a paper-cutter, the combination with the main supporting-head having a forwardly-extending handle and an upwardly-extending gage portion, said gage portion being provided with downwardly-extending flanges on each side and an inwardly-extending fulcrum-roller in connection with a spring secured to said gage portion and extending forwardly but ending between said handle and said fulcrum-roller, said spring being curved downwardly and having a roller journaled in the end thereof, substantially as and for the purpose specified.

3. The combination with the recessed head having a handle, the gage portion, with the inwardly-extending roller and the spring on said gage portion also provided with a roller, substantially as and for the purpose specified.

4. The straight-edge formed of a single piece of metal having the main body thereof provided at each side with bearing-surfaces and an upwardly-extending web which is bent inwardly to form an overhanging supporting-flange, substantially as specified.

In testimony whereof I have hereunto set my hand this 26th day of September, A. D. 1903.

ALBERT J. PERKS.

Witnesses:

CHAS. I. WELCH,
CLIFTON P. GRANT.