

July 13, 1926.

1,592,437

S. BRADSHAW

PAPER TRIMMER

Filed June 15, 1925

Fig. 1.

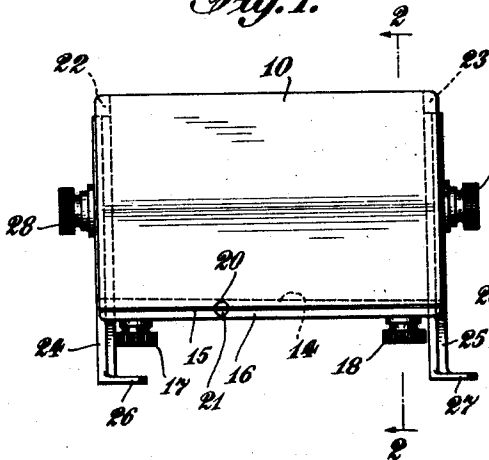


Fig. 2.

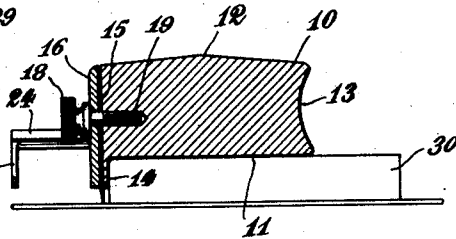


Fig. 6.

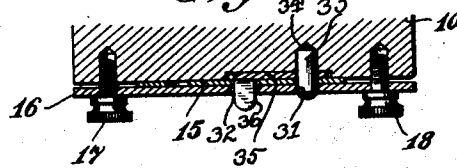


Fig. 3.

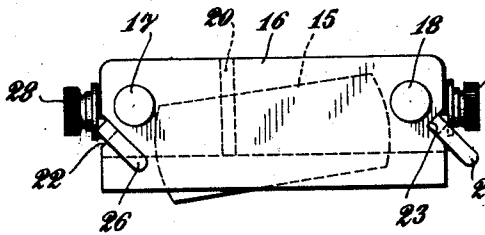


Fig. 4.

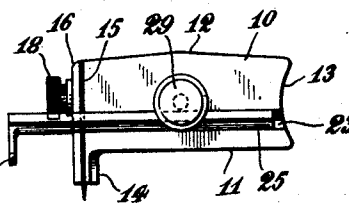
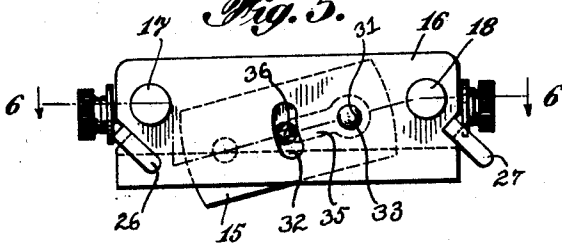


Fig. 5.



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PAPER TRIMMER.

Application filed June 15, 1925. Serial No. 37,088.

This invention relates to trimmers, and more particularly to a device for cutting off the edges of thin sheets of material such as wall paper, wood veneer, window shades, etc.

One object of this invention is to provide a trimmer of the above nature which will be especially adapted for adjustably holding a thin flat blade, such as is used in safety razors of the Gillette type.

A further object is to provide a trimmer of the above nature having means whereby the width of the material to be cut off from the edge of the sheet may be accurately gauged.

A further object is to provide a device of this nature which will be simple in construction, inexpensive to manufacture, easy to manipulate, compact, ornamental in appearance, and very efficient and durable in use.

With these and other objects in view, there have been illustrated on the accompanying drawings, two forms in which the invention may be conveniently embodied in practice.

Fig. 1 represents a top plan view of the trimmer.

Fig. 2 is a side sectional view of the same taken along the line 2—2 of Fig. 1, looking in the direction of the arrows.

Fig. 3 is a front view of the trimmer, the razor blade carried thereby being shown by dotted lines.

Fig. 4 is a side view of the same.

Fig. 5 is a front view of a modified form of trimmer, having means for readily adjusting the razor blade according to the depth of cut desired.

Fig. 6 is a sectional view, with parts broken away, of the modified form of trimmer, the section being taken along the line 6—6 of Fig. 5, looking in the direction of the arrows.

Referring now to the drawings in which like reference numerals denote corresponding parts throughout the several views, the numeral 10 indicates a body member having a flat bottom 11 and an arched top 12. One side of the body member has a curved shallow recess 13 adapted to form a support for the fingers of the user. The side of the body member opposite from the recess 13 is

provided with a thin depending tapered flange 14, said flange converging slightly from left to right, as viewed in Fig. 1.

A blade 15, preferably but not necessarily of the Gillette razor type, is adapted to be clamped against the tapered depending flange 14 by means of a thin face plate 16. The face plate 16 is preferably rectangular in shape and is adapted to be held tightly against the side of the body member 10 by a pair of knurled hand-operated screws 17 and 18, said screws being adapted to engage in threaded sockets 19 formed in said body member 10.

In order to shift the position of the razor blade 15 according to the thickness of the material to be cut, the face plate 16 and the body member 10 are provided with aligned semi-circular vertical recesses 20 and 21. As will be clear from Fig. 1, the recesses 20 and 21 form a socket into which a stick of wood or other suitable instrument, not shown, may be inserted to engage the upper edge of the blade 15, the knurled screws 17 and 18 having first been loosened to permit the blade to be readily moved.

For the purpose of enabling the width of cut to be accurately adjusted, provision is made, at one end of the body member, of a pair of angular recesses 22 and 23, said recesses being adapted to form seats for L-shaped gauge pins 24 and 25. The gauge pins are preferably square in cross-section so as to fit non-rotatively in the angular recesses 22 and 23. The gauge pins 24 and 25 are adapted to be held with their bent ends 26 and 27 at any desired distance from the face plate 16 by means of a pair of knurled screws 28 and 29 which extend through suitable threaded sockets passing through said angular recesses 22 and 23.

In operation, when it is desired to use the device for cutting off the edge of a sheet of material, a straight edge 30 will first be laid upon the sheet near its edge. The trimmer will then be placed with its tapered flange 14 against the straight edge 30. The gauge pins 24 and 25 will next be adjusted relative to the body member 10 to produce the desired width of cut, and the ends of the straight edge will then be moved relative to the edge of the sheet until the bent ends 26 and 27 of said gauge pins exactly coin-

side with the edge of said sheet. While holding the sheet with one hand, the user will grasp the trimmer in the other hand and draw it rapidly along the straight edge 30 using sufficient pressure to cut through the thickness of the sheet or sheets upon which the straight edge is laid.

The modified form of edge trimmer illustrated in Figs. 5 and 6 is similar to the device shown in Figs. 1 to 4, inclusive, and described above, but is provided with a self-contained mechanism for readily adjusting the position of the blade.

The face plate 16 of the modified form of trimmer is provided with an aperture 31 and an arcuate slot 32 located between the knurled screws 17 and 18. A fulcrum pin 33 passes through the aperture 31 and is tightly fitted within a cylindrical socket 34 formed in the body member 10. Surrounding the fulcrum pin 33 is an adjusting arm 35 which lies underneath the blade 15 and has a flat hand knob 36 projecting out through the center hole of the blade and through the arcuate slot 32 of the face plate.

In the operation of the modified form of trimmer when it is desired to adjust the position of the blade to correspond to a different depth of cut, it will merely be necessary to slightly unscrew the knurled screws 17 and 18, and by then grasping the knob 36 between the fingers, the blade may be moved as may be desired. After the screws 17 and 18 have been tightened, the trimmer will be again ready for use.

One advantage of this invention is that the tapered flange 14 will give the blade a slight inclination to the direction of travel of the body member, and the blade will thus be prevented from following in the grain of the board underneath the sheets to be cut and thus being drawn out of alignment.

A further advantage is that the trimmer may be operated by one hand of the user, leaving the other hand free to hold the sheet material.

A further advantage is that by using a thin blade a much cleaner and straighter cut may be made than was possible with the former types of trimmers.

While there has been disclosed in this specification two forms in which the invention may be embodied, it is to be understood that these forms are shown for the purpose of illustration only, and that the invention is not to be limited to the specific disclosures but may be modified and embodied in various other forms without departing from its spirit. In short, the invention includes all the modifications and embodiments coming within the scope of the following claims.

Having thus fully described the invention, what is claimed as new, and for which it is desired to secure Letters Patent, is:

1. In an edge trimmer for thin sheet ma-

terial, a body member adapted to be grasped in one hand of the user, said body member having a depending flange adapted to engage a straight edge to guide the trimmer during the cutting operation, a face plate for clamping a flat blade against said flange, and means for securing said face plate to said body member.

2. In an edge trimmer for thin sheet material, a body member adapted to be grasped in one hand of the user, said body member having a tapered depending flange adapted to engage a straight edge to guide the trimmer during the cutting operation, a face plate for clamping a flat blade against said flange, and means for securing said face plate to said body member.

3. In an edge trimmer for thin sheet material, a body member adapted to be grasped by one hand of the user, means depending from said body member adapted to engage a straight edge for guiding the trimmer during the cutting operation, means for detachably clamping a flat blade against said body member, and means extending forwardly beyond the cutting edge of said trimmer for gauging the width of cut.

4. In an edge trimmer for thin sheet material, a body member adapted to be grasped by one hand of the user, means depending from said body member adapted to engage a straight edge for guiding the trimmer during the cutting operation, means for detachably clamping a flat blade against said body member, one end of the body member having an angular groove formed therein, a guiding member of angular cross-section fitting said groove, said guiding member having its extremity bent parallel to the edge of said body member.

5. In an edge trimmer for thin sheet material, a body member adapted to be grasped in one hand of the user, said body member having a depending flange adapted to engage a straight edge to guide the trimmer during the cutting operation, a face plate for clamping a flat blade against said flange, and means for securing said face plate to said body member, an adjusting arm pivoted between said flange and said face plate, said adjusting arm having an operating knob projecting through said face plate to adjust the position of the blade.

6. In an edge trimmer for thin sheet material, a body member adapted to be grasped in one hand of the user, said body member having a depending flange adapted to engage a straight edge to guide the trimmer during the cutting operation, a face plate for clamping a flat blade against said flange, and a pair of thumb screws for detachably securing said face plate against said body member.

7. In an edge trimmer for thin sheet material, a body member adapted to be grasped

in the hand of the user, means for detachably clamping a thin razor blade in cutting position upon said body member, a depending flange on said body member to guide the trimmer along a straight edge during the cutting operation, and means extending to the edge of said sheet material to adjust the position of said straight edge and gauge the width of cut.

8. In an edge trimmer for thin sheet material, a body member adapted to be grasped in the hand of the user, means for guiding said trimmer along a straight edge during the cutting operation, means for clamping a blade on one edge of said body member, and

means pivoted to said body member for adjusting the position of said blade.

9. In an edge trimmer for thin sheet material, a body member adapted to be grasped in the hand of the user, means for guiding said trimmer along a straight edge during the cutting operation, means for clamping a blade on one edge of said body member, and means pivoted to said body member and extending through said clamping means for adjusting the position of said blade.

In testimony whereof, I have affixed my signature to this specification.

SOLOMON BRADSHAW.