April 2, 1935. A. WEDEKIND 1,996,224

PAPER CUTTER

Filed Jan. 11, 1933

Fig. 1.

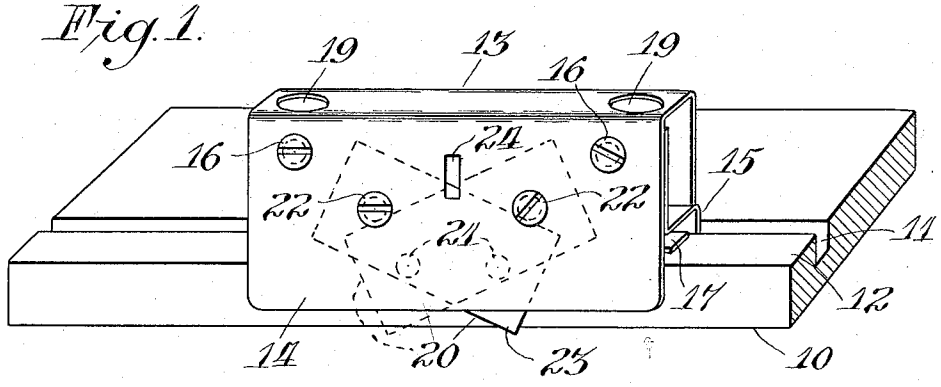
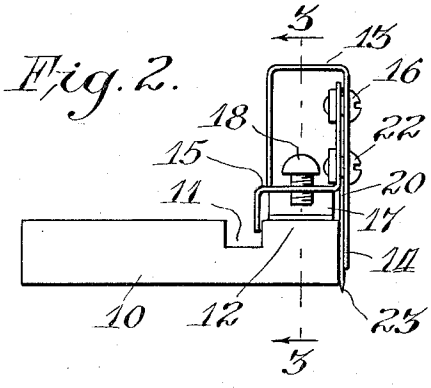


Fig. 2.



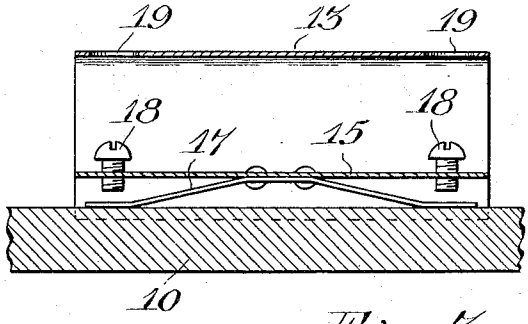


Fig. 3.

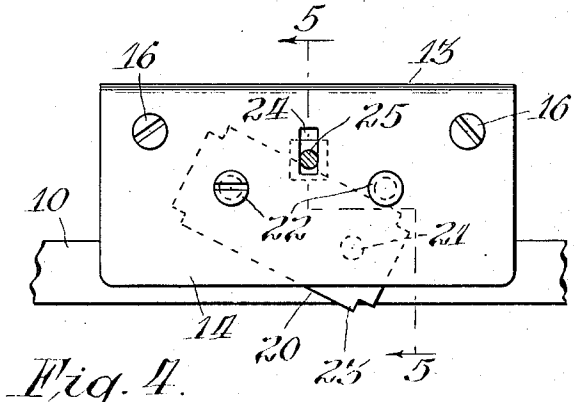


Fig. 4.

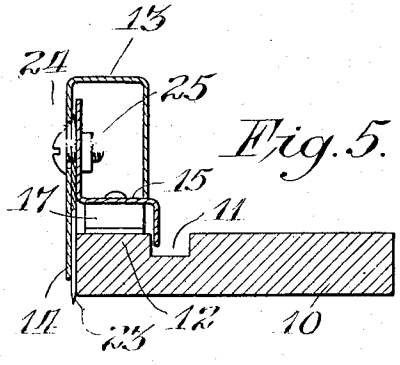


Fig. 5.

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Patented Apr. 2, 1935

1,996,224

UNITED STATES PATENT OFFICE

1,996,224

PAPER CUTTER

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Application January 11, 1933, Serial No. 651,093

5 Claims. (Cl. 164—83)

My invention relates to paper cutters, and more particularly to a simple, inexpensive paper cutter for cutting wall paper along a straight edge.

The objects of the invention are to provide a simple and efficient paper cutter that may be used with a straight edge in cutting wall paper, for example; to provide such a cutter of light weight so that it can conveniently be manipulated by hand; to provide such a cutter that may use discarded razor blades of the well known wafer type; to provide such a blade holder that will permit adjustable setting of the blade to enable utilization of all four cutting edge corners for paper cutting service; to provide an adjustable gauge for the cutting corner of the blade; and, other objects, which will become apparent to those skilled in this art, as the disclosure is more fully made.

In the accompanying sheet of drawings is illustrated a practicable example of my invention, the same comprising briefly a hand hold body designed to carry a cutting blade of the safety razor wafer type, said body, or holder, having means to hold the blade in a manner to present one corner of the blade at a time along a straight edge for paper cutting duty, thus making available for eventual use, all four corners of the blade. The holder is designed to be guided along the conventional paper hanger's straight edge, and a gauging feature for the knife is also provided.

In this drawing:

Figure 1 is a general perspective view, showing the improved paper cutter cooperating with a straight edge;

Figure 2 is an end view of the cutter and straight edge;

Figure 3 is a longitudinal, central, sectional view through the cutter and straight edge, as seen along the line 3—3 appearing in Figure 2;

Figure 4 is a front elevational view of the cutter and straight edge; and,

Figure 5 is a transverse cross sectional view through the straight edge and cutter as seen along the irregular section line 5—5, appearing in Figure 4.

A conventional straight edge, such as commonly employed by wall paper hangers, is shown at 10, the same having a longitudinal groove 11 adjacent one edge, to provide the usual marginal shoulder 12.

The improved paper cutter has been designed to cooperate with such a straight edge, and comprises a sheet metal hand hold, or holder body 13, bent generally into inverted U-shape and having one leg or side of the U of greater length, or depth, so that it will overhang the edge of the straight edge, as shown at 14 in Figures 1 and 5 especially. A second, simple sheet metal piece completes the holder, said second piece comprising a Z-shaped form 15 coextensive in length with the piece 13 and having one leg arranged vertically and secured by two screw bolts 16 to the side 14 of the main holder 13, as shown in Figures 1 and 2, the piece 15 being located within the part 13 as shown in Figure 5. The other vertical leg of the Z piece 15 completes a leg of a channel form with the overhang 14 that spans the shoulder 12 of the straight edge 10. The connecting web between the two legs of the Z piece 15 is disposed horizontally and a slight distance above the shoulder 12. Said horizontal web portion has secured to its under side a flat spring 17 the ends of which serve as gauge runners that ride on the shoulder 12. Screws 18 are adjustably set in the ends of the horizontal web of the Z piece 15 to limit the downward movement of the holder when it is pressed against the straight edge shoulder 12. Holes 19 are provided in the top edge of the holder or body 13 to allow of easy access to the screws 18 with a screw driver when it is desired to change the set of the screws 18. These holes 19, as shown, are in vertical alinement with the screws 18.

While any suitable type of cutter blade may be employed, it is especially intended, for the sake of economy, that discarded razor blades of the common wafer type be employed, such a blade being shown at 20 in Figures 1 and 2, the blade being rectangular and having two cutting edges, so that when it is tilted in the manner shown, one corner only is presented for cutting duty. By this expedient then, each blade presents four corners, thereby increasing the usefulness and life of the blade. These blades have a hole in each end thereof for mounting on the locator pins of a razor. Such holes are indicated in Figure 1 at 21. The wall or side 14 carries two screws 22 only one of which is passed through a hole 21 of the blade to lock the blade between the inside face of the wall 14 and the adjacent vertical portion of the Z-piece 15, the blade being tilted at an angle so that the top edge of the far end of the blade seats under and stops against the other screw 22, as shown. This form of mounting presents a cutting edge corner of the blade at 23 below the lower edge of the overhang or wall 14 for cutting duty. By pressing down on the holder the spring legs 17 serve as gauges to project the cutting edge corner just enough below the plane of the straight edge bottom to perform the

proper cutting action. When the cutting corner 23 has worn, then the blade can be tilted in the opposite direction as shown in Figure 1, the function of the screws 22 then being reversed. By turning the blade over, the other two corners thereof may also be used in an obvious manner. Only one blade is used at a time and the dotted line showing of the blade in Figure 1 is intended merely to illustrate two positions of the same blade.

Another common form of safety razor, wafer blade employs cut out corners as shown in Figure 4 and to adapt the holder of this invention for use with such blades a slot 24 is provided in the wall 14 to carry a screw bolt 25 which serves as a means to increase the angle of tilt of such a blade to present its cutting edge below the plane of the straight edge. In this case, the screw 25 merely supplants the other screw 22 as a stop.

In use the blade 20 is mounted as described and the holder is then run by hand along the straight edge shoulder 12 to cut wall paper, and the like, lying on a table below the straight edge. The depth of cut of the corner or end of a blade is gauged by the ends of the spring 17, such gauging effect being adjustable by means of the screws 18 accessible through the holes 19.

The Z-piece and U-holder thus form a guard for firmly holding the blade close to the straight edge, prevents buckling of the wafer blade; and protects the user's hand from accidental cuts. Further, the point of cut of the blade is adjustable by controlling the tilt thereof by the clamp screw and an adjustable gauging effect is enabled as described by means of the adjustable spring runner gauge.

From this disclosure it will now be clear that an improved paper cutter has been provided, which achieves all of the desirable objects heretofore recited.

It is the intention to cover all such changes and modifications of the form herein chosen for purposes of illustration which do not depart from the spirit and scope of the invention as indicated in the following claims.

What is claimed is :

1. A paper cutter comprising a member having a vertical wall to slide alongside a straight edge, a piece connected to the wall and having a portion spaced therefrom in parallelism to form a hollow narrow channel holder for spanning the shoulder of a straight edge, a resilient gauge of substantially the width of said holder and carried by said piece to ride the straight edge shoulder, a pair of screw bolts carried in spaced relation by the holder wall, a rectangular cutting blade having a hole at one end through which one of the screw bolts is passed to secure the blade between the wall and aforementioned piece, the other end of the blade abutting the other screw bolt to cause the blade to assume a tilted position for exposing a corner only thereof below said vertical wall, and means carried by said piece and accessible through the top edge of the holder to adjust the gauge.

2. A paper cutter comprising a holder having a vertical wall to slide alongside a straight edge, a piece connected to the wall and having a portion spaced therefrom in parallelism to form a channel for spanning the shoulder of a straight edge, a resilient gauge carried by said piece to ride the straight edge shoulder, a pair of screw bolts carried in spaced relation by the holder wall, a rectangular cutting blade having a hole at one end through which one of the screw bolts is passed to secure the blade between the wall and aforementioned piece, the other end of the blade abutting the other screw bolt to cause the blade to assume a tilted position for exposing a corner only thereof below said vertical wall, and a screw for adjusting the gauge, said wall having a horizontal top portion provided with a hole alined with the gauge adjusting screw to make it accessible.

3. A paper cutter comprising a body formed as an inverted narrow U for hand grip purposes and presenting one leg of greater depth than the other, said deeper leg adapted to bear against a straight edge, a Z-shaped piece having vertical legs one of which extends upwardly alongside the deeper leg of the body and in spaced relation thereto, a cutting blade held stationary between the body leg and said Z leg in position closely to abut against a straight edge, said Z-piece having a horizontal web of substantially the same width as the body and its other leg being downturned to form a channel with the deep body leg for guiding the holder on a straight edge shoulder, the other leg or side of the body abutting the horizontal web of the Z-piece to close the body, a gauge for the blade of substantially the width of the horizontal web carried by and below said horizontal web, and means carried on the web and accessible through holes formed in the bight of the U for adjusting said gauge.

4. A paper cutter comprising a body formed as an inverted U for hand grip purposes and presenting one leg of greater depth than the other, said deeper leg adapted to bear against a straight edge, a Z-shaped piece having vertical legs one of which extends upwardly along side the deeper leg of the body and in spaced relation thereto, a cutting blade held between the body leg and said Z leg in position closely to abut against a straight edge, said Z-piece having a horizontal web of substantially the same width as the body and its other leg being downturned to form a channel with the deep body leg for guiding the holder on a straight edge shoulder, the other leg or side of the body abutting the horizontal web of the Z-piece to close the body, a gauge for the blade carried by said horizontal web including screws to adjust the same, and said body in its bight portion formed with holes alined respectively with said screws to permit entry of a tool for setting the screws to adjust the gauge.

5. A paper cutter comprising a hollow holder structure formed by a pair of closely spaced wall members arranged vertically and connected by a horizontal web portion adjacent the lower edge of said wall members, a resilient gauge runner of substantially the width of the web portion and associated with the under side thereof and adapted to run on a straight-edge shoulder, said web portion including a vertical portion spaced slightly from one of the wall members and located above the web, a pair of spaced connecting members between the vertical portion and adjacent wall, a wafer blade held between said portion and wall by one of said connecting members and tilted to be disposed below the other of said connecting members, and an adjusting screw mounted in the horizontal web adjacent each end thereof for regulating the action of the gauge, said screws being housed within the hollow holder below the upper edge thereof but accessible for adjustment through said upper edge of the holder.

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