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W. H. HARBISON
RAZOR BLADE HOLDER
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2,632,247

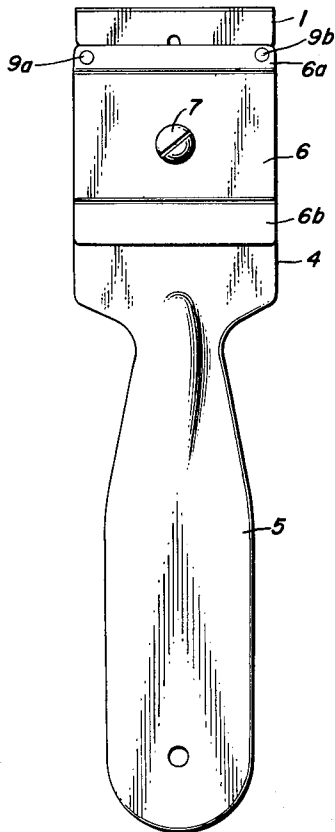


Fig. 1.

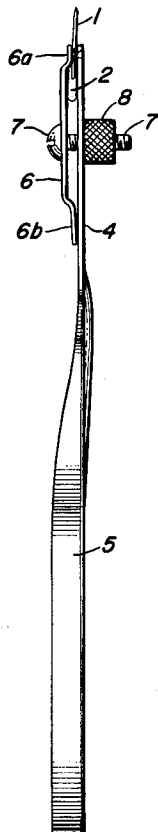


Fig. 2.

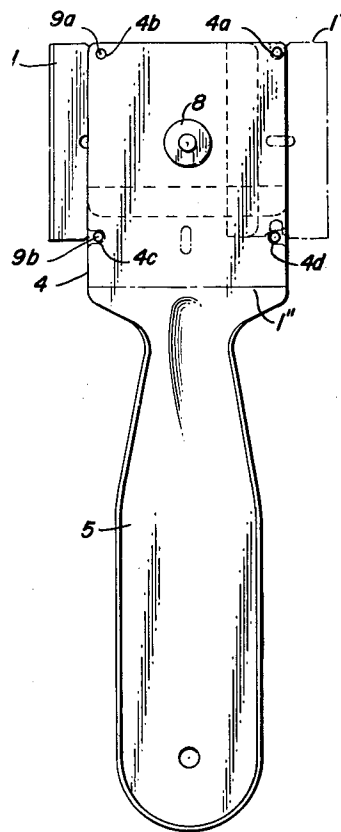


Fig. 3.

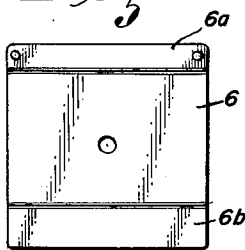


Fig. 4.

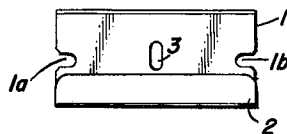


Fig. 5.

INVENTOR
WILLIAM H. HARBISON

BY *Ralph B. Stewart*
ATTORNEY

UNITED STATES PATENT OFFICE

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RAZOR BLADE HOLDER

William H. Harbison, Altadena, Calif.

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1 Claim. (Cl. 30—320)

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This invention relates to improvements in holders for razor blades, adapted to be used as scrapers and serving to hold the blade in retracted position as well as in cutting and scraping positions.

An object of my invention is to provide a simple, inexpensive and at the same time strong and durable holder.

Another object is to provide a holder for razor blades of the single-edge type having a reinforcing back piece of V-shaped section clamped along the back edge of the blade, and also having a notch formed in each end edge of the blade just in front of the back piece. Such blades are commonly sold on the market under various trade names such as "Gem," "Star," "Glix" and others.

Still another object is to devise a holder in which the blade may easily be shifted into any one of four different positions, including a safety position, without taking the holder apart.

A preferred embodiment of the invention is shown in the accompanying drawings in which—

Fig. 1 is a view of the front of the holder with the blade supported in its normal scraping position with about half of the blade exposed;

Fig. 2 is a side view of the holder with the front side to the left;

Fig. 3 is a view of the back of the holder showing the blade in full lines extending to the left in one of its normal cutting positions and in broken lines extending to the right in another of its normal cutting positions, and also showing, in broken lines, the blade in its safety position;

Fig. 4 is a view of the inside face of the clamping plate by which the blade is secured to the holder; and

Figure 5 is a side view of a razor blade of the type for which the holder is designed.

In Figure 5 of the drawing is shown a razor blade of the type to be used in the holder; it is of the single-edge type having a blade 1 and the usual back piece 2, the ends of the blade being notched or apertured at 1a and 1b just in front of the back piece 2. Usually the blade is provided with a central aperture 3 but this is not used in the present invention.

The holder is formed of a flat, plate-like head 4 of rectangular form having a width equal to the length of the blade 1 and a length somewhat longer than the width. The head 4 is provided with a suitable handle 5 extending from its rear end, and preferably this handle is formed integral with the head.

The blade 1 is clamped to the front face of the

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head 4 by means of rectangular plate 6 which is secured to the head by a clamping screw 7 and a nut 8. As shown in Figures 2 and 4, the central transverse section of clamping plate 6 is raised or off-set with respect to the front and back edge portions 6a and 6b, and the amount of the off-set is equal substantially to the thickness of the back piece 2 on the razor blade. As shown in Figure 2, the front edge portion 6a of plate 6 engages the blade 1 while the back piece 2 is engaged by the off-set central portion of plate 6.

The front edge portion 6a of plate 6 extends over the notches 1a and 1b in blade 1, and two pins or pegs 9a and 9b are secured to the portion 6a and extend through notches 1a and 1b from the inner face of plate portion 6a and enter holes 4a and 4b formed in the head 4 at the two front corners thereof. Thus, pins 9a and 9b serve to hold the blade in working position during use. These pins receive the reaction force from the blade during scraping and the reaction force is taken by the head plate 4 through the end portions of the pins 9a and 9b. The pins may be formed of a shouldered rivet having a reduced shank portion which is riveted in holes formed in plate section 6a.

The head plate 4 is also provided with holes 4c and 4d formed therein on each side near the rear end of the head. These holes are spaced from holes 4b and 4a respectively a distance equal to the spacing between holes 4a and 4b. Thus, holes 4a, 4b, 4c and 4d are positioned at the corners of a square, and the clamping screw 7 is located at the center of the square. By this arrangement, the blade 1 may be clamped to the head 4 in any one of four different positions. The normal scraping position of the blade is shown in Figures 1 and 2; one cutting position of the blade 1 is shown in solid lines in Figure 3 and another cutting position is shown in broken lines at 1'. The fourth position of the blade, the safety position, is shown in broken lines at 1'' in Figure 3; in this position the cutting edge of the blade is directed backwardly and is protected by the rear portion of head 4 against accidental cutting of the user.

The blade may be shifted from one position to another without taking the holder apart, simply by unscrewing nut 8 until the ends of pins 9a and 9b can be withdrawn from the locating holes in head plate 4 and then the blade may be rotated with the clamping plate 6 into the desired new position. While the nut 8 has been shown located on the back of the holder, the screw 7 and nut 8

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may be reversed to locate the nut on the front side.

It will be seen that clamping plate 6 is pivotally mounted upon head plate 4 by screw 7 so that plate 6 may be rotated into four different positions where plate 4 is provided with holes for receiving the pins 9a and 9b.

While only two locating pins are shown on plate 6, another pair may be provided on end section 6b if desired and this section may be wider than section 6a, as shown, so as to provide support for a greater width of the blade than section 6a.

It will be noted that in my holder the clamping screw is not required to pass through a hole in the razor blade, as is the case in many holders heretofore devised, and this permits the blade to be replaced without removing the clamping screw.

What I claim is:

A holder for a razor blade of the single-edge type having an enlarged back piece on the back edge thereof and being notched at each end in front of said back piece, said holder comprising a flat, rectangular head plate having a width equal to the length of said blade and a greater length than width, a handle provided at the rear end of said head plate, a clamping plate of substantially square form having a width equal to the width of said head plate and having the main central transverse portion thereof raised with respect to relatively narrow front and rear edge

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portions, a clamping screw located in aligned holes in said head plate and clamping plate for clamping said clamping plate over the forward area of said head plate with the narrow edge sections of the clamping plate facing said head plate, a pair of locating pins carried by the forward edge section of said clamping plate and extending towards said head plate from the inner face of said clamping plate, said pins being spaced apart a distance equal to the separation of the notches in said blade, and said head plate being provided with four holes spaced the same distance apart as the pins and at equal angles about said screw for receiving said pins in four different angular positions of said clamping plate, said pins being arranged to pass through the notches in the ends of a blade clamped in said holder and serving to transmit the reaction force of said blade to said head plate.

WILLIAM H. HARBISON.

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