

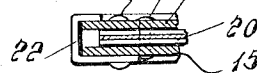
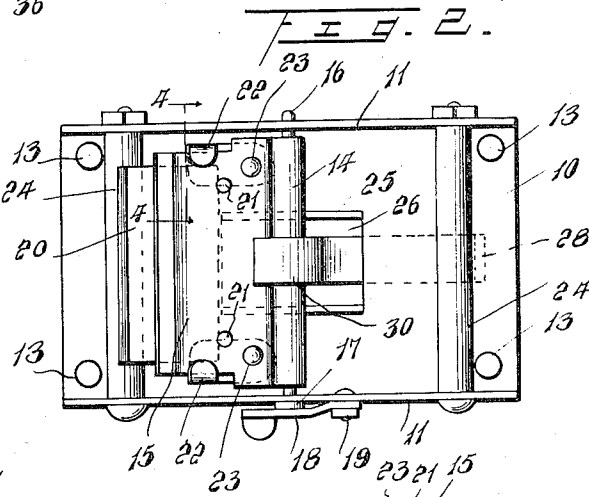
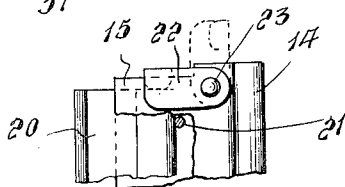
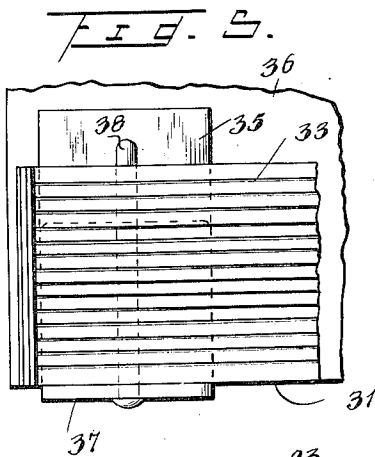
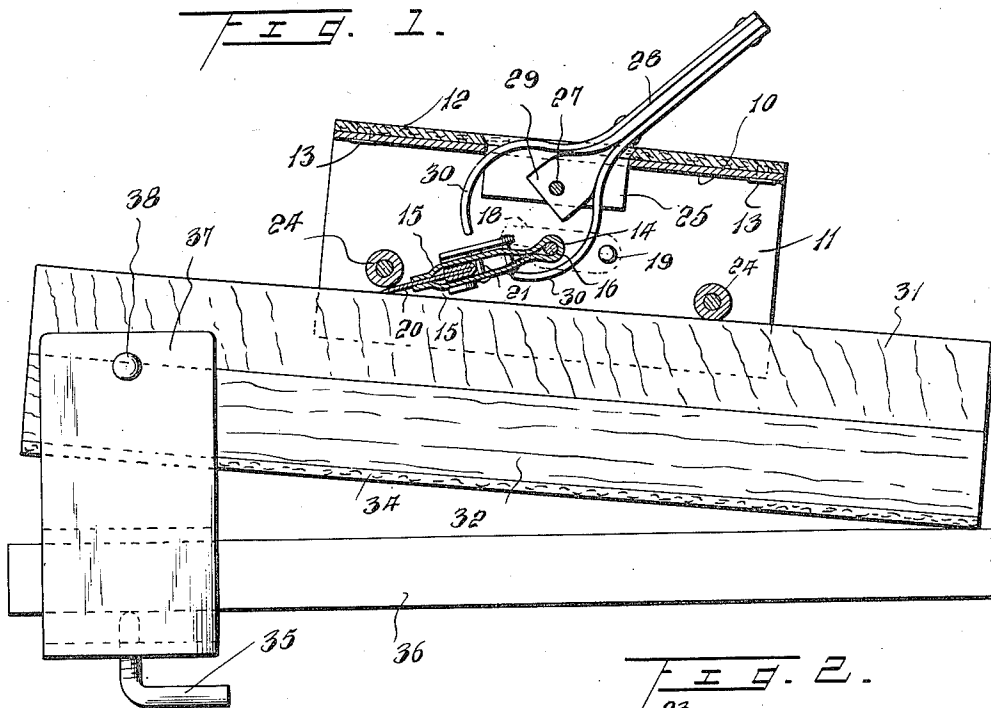
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RAZOR BLADE SHARPENING APPARATUS

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RAZOR BLADE SHARPENING APPARATUS

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2 Claims. (Cl. 51-153)

This invention relates to certain new and useful improvements in razor blade sharpening apparatus.

The primary object of the invention is to provide a holder for a safety razor blade with means carried by the holder and adapted to be manually operated for presenting opposite sides of the cutting edge of a safety razor blade to a honing block with the holder manually moved over the block.

A further object of the invention is to provide razor blade sharpening apparatus of the foregoing character embodying a novel type of honing block and supports therefor.

With the above and other objects in view that will become apparent as the nature of the invention is better understood, the same consists in the novel form, combination and arrangement of parts hereinafter more fully described, shown in the accompanying drawing and claimed.

In the drawing:—

Figure 1 shows razor blade sharpening apparatus constructed in accordance with the present invention, the honing block and support therefor being illustrated in side elevation and the holder for the safety razor blade being shown in longitudinal section;

Figure 2 is a bottom plan view of the razor blade holder;

Figure 3 is a fragmentary plan view of the holder per se for the safety razor blade with the latch for retaining the blade in position illustrated by dotted lines in its released position;

Figure 4 is a detail sectional view taken on line 4-4 of Figure 2; and

Figure 5 is a fragmentary top plan view of the honing block and support therefor.

Referring more in detail to the accompanying drawing, the razor blade sharpening apparatus comprises a U-shaped frame having a top wall 10 and depending side walls 11, the top wall 10 being covered by a felt strip 12 or other material that is attached thereto as at 13 to add comfort to the hand of the user during a sharpening operation.

A blade holder is pivotally and removably mounted between the side walls 11 of the frame intermediate the ends thereof as shown in Figures 1 and 2 and comprises a barrel portion 14 from which a pair of clamp plates 15 extend, the barrel portion 14 having a pivot pin 16 extending therethrough and through the side walls 11 of the frame with a head 17 upon one end of the pivot pin 16 that is adapted to be engaged by an intermediate portion of a lever 18 pivotally

mounted as at 19 upon a side wall 11 for retaining the pivot pin in position. When the lever 18 is moved from its pivotal mounting 19, the head 17 of the pivot pin 16 is exposed and the latter may then be removed to permit removal of the blade holder for insertion or removal of the razor blade 20 to be sharpened. A pair of pins 21 extend between the clamping plates 15 to aid in positioning the blade 20 in the clamping plate and to insure sufficient projection of the cutting edge of the blade for a sharpening or honing operation. The clamping plates 15 are moved in binding engagement with the razor blade 20 by means of a U-shaped strap 22 pivotally mounted as at 23 upon each end of the clamping plates 15.

Pivotal movements of the blade holder are limited by shaft supported rollers 24 that are supported between the side walls 11 of the frame adjacent opposite ends, a side face of the razor blade 20 being moved into engagement with a roller with the cutting edge of the blade projecting from the roller for contact with a face of a honing block as illustrated in Figure 1. The razor blade 20 is adapted to be held in firm engagement with the movement limiting roller 24 by means of a lever pivoted in the frame and having an operating handle projecting above the top wall 10 of the frame, said top wall as shown in Figures 1 and 2 having spaced flanges 25 struck-out therefrom to provide a top opening 26 and a pin 27 extends through the flanges 25 and side walls 11 of the frame for the support of an operating handle for the blade holder between the flanges 25. The operating handle includes a hand grip 28 projecting through the opening 26 in the top wall 10 of the frame with a leg 29 of the handle pivoted upon the pins 27 and a pair of opposed curved arms 30 respectively arranged at opposite sides of the pivot pin 16 for selective engagement with the clamping plates 15. When the hand grip 28 is in the position shown in Figure 1, one of the curved arms 30 moves the blade holder to the position illustrated, with the razor blade 20 held in firm contact with a guide roller 24 and in position for sharpening or honing one side edge of the blade. To present the other side edge of the razor blade 20 to a sharpening or honing surface, the frame is removed from the honing block, the hand grip 28 moved on the pivot pin 27 to cause the other curved arm 30 of the operating handle to be moved into engagement with the adjacent side of the razor blade holder for shifting the latter to a position reverse from that illustrated in Figure 1, the frame carrying

the blade holder then being moved in an opposite direction over the sharpening or honing block.

The honing block as illustrated in Figures 1 and 5 is preferably formed of wood or other fibrous material and is comprised of two sections 31 and 32 secured together in any appropriate manner, the grain of the section 31 extending transversely thereof while the honing face of the section 1 is longitudinally scored as at 33 to increase the effective honing operation. The exposed face of the section 32 is covered by a leather strap 34 or the like which may be used for adding a polish or luster to the cutting edge of the blade. The support for the honing block includes a bench clamp 35 that is adapted to be attached to a support 36, the bench clamp 35 carrying an upstanding wall 37 from which a pin 38 laterally projects for reception in a cross opening in the honing block as shown in Figures 1 and 5, the honing block being supported at an inclination for convenience in manipulation of the frame carrying the blade holder.

From the above detailed description of the invention, it is believed that the construction and operation thereof will at once be apparent and while there is herein shown and described the preferred embodiment of the invention, it is nevertheless to be understood that minor changes may be made therein without departing from the spirit and scope of the invention as claimed.

I claim:—

1. In a sharpener for safety razor blades, a U-shaped frame, a blade holder pivotally mounted

between the side walls of the frame, means carried by the frame for limiting pivotal movements of the blade holder, a handle pivoted between the side walls of the frame and projecting through the upper end of the frame and having curved arms at its lower end straddling the blade holder for selectively moving and holding the blade holder into firm engagement with either of the movement limiting means, the blade holder comprising a pair of clamping plates and a pivoted stop carried by opposite ends of the plates for moving the same into binding engagement with a blade.

2. In a sharpener for safety razor blades, a U-shaped frame, a blade holder pivotally mounted between the side walls of the frame, means carried by the frame for limiting pivotal movements of the blade holder, a handle pivoted between the side walls of the frame and projecting through the upper end of the frame and having curved arms at its lower end straddling the blade holder for selectively moving and holding the blade holder into firm engagement with either of the movement limiting means, the free ends of the curved arms being spaced apart a distance greater than the thickness of the blade holder whereby the latter has limited movements between the curved arms, the blade holder comprising a pair of clamping plates and a pivoted stop carried by opposite ends of the plates for moving the same into binding engagement with a blade.

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