

Nov. 6, 1934.

W. J. KOLLER

1,979,271

RAZOR BLADE SHARPENER

Original Filed June 22, 1932

Fig. 1.

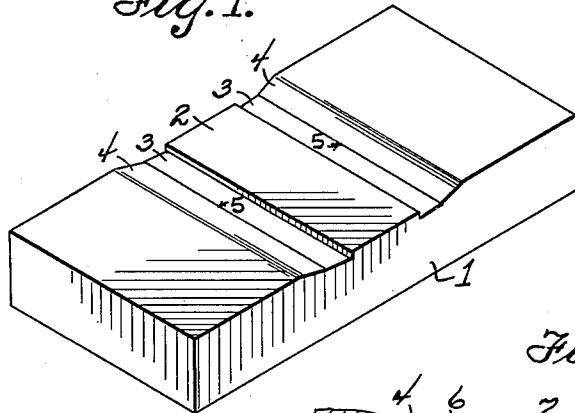


Fig. 2.

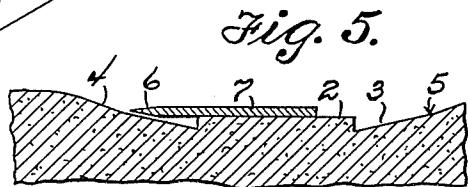


Fig. 5.

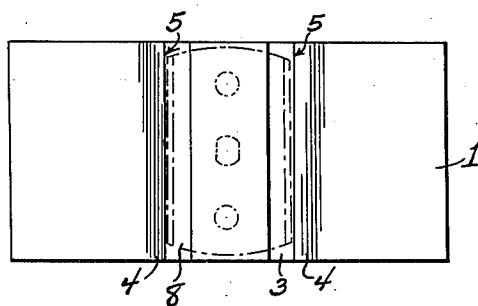


Fig. 3.

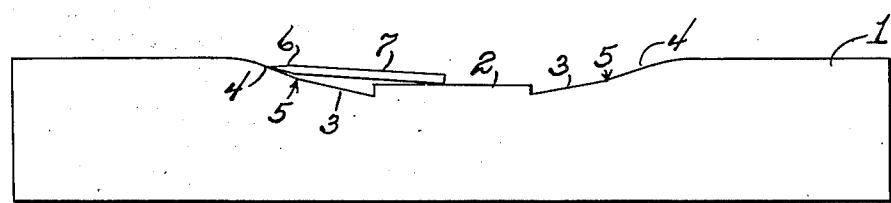
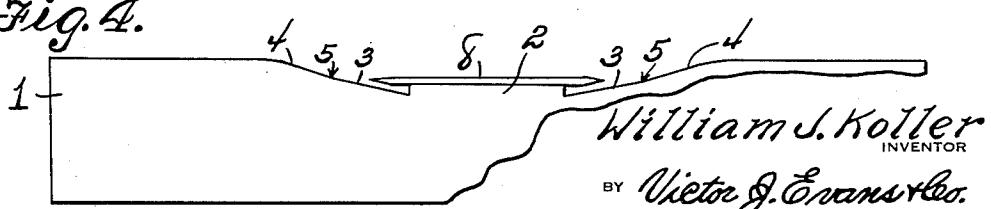


Fig. 4.



UNITED STATES PATENT OFFICE

1,979,271

RAZOR BLADE SHARPENER

William J. Koller, Williamsport, Pa., assignor of forty-nine per cent to George M. Rieppel, Cowanesque, Pa.

Application June 22, 1932, Serial No. 618,750
Renewed January 31, 1934

1 Claim. (Cl. 51—211)

My present invention has reference to a sharpener for safety razor blades, etc., and my primary object is the provision of a sharpener for this purpose which may be successfully used by any person whether acquainted with the art of sharpening blades or not, of a construction which will cause the edge of the blade to be sharpened in an even and expeditious manner.

A further object is the provision of a sharpening device for either a double or single edge razor blade that is in the nature of a block of any desired material that embodies sufficient abrasion for sharpening purposes, and which block is centrally formed with a horizontal or plane surface upon which the blade rests, which block from the plane is formed with depressions that provide inner and outer angle surfaces, the inner surface being arranged at such angle that the sharpened edge of the blade will be brought directly thereagainst when moved off of the plane surface and such edge, when the blade is imparted a longitudinal movement will from thence travel over the other angle surface to effect the sharpening of the blade without liability of biting into the surface over which the blade travels.

To the attainment of the foregoing the invention consists in the improvement hereinafter described and definitely claimed.

30 In the drawing:

Figure 1 is a perspective view of a sharpening device in accordance with this invention.

Figure 2 is a top plan view.

Figure 3 is a side elevation thereof showing the blade traveling over the sharpening surface of the device.

Figure 4 is a similar view showing a double edge blade arranged upon the central or plane surface of the sharpener.

Figure 5 is a detail longitudinal sectional view of the device as disclosed by Figure 3, with the pointed end of the blade slightly out of contact with the sharpening surface.

The improvement is in the nature of a block. The block may be constructed of any desired material that embodies sufficient abrasiveness to serve as a sharpener for safety razor blades. The block on its upper face is centrally depressed to provide a horizontal plane and table surface 2. The ends of the plane surface 2 are vertically straight, and from the said edges the outer face of the block is further depressed to provide two inclined surfaces, the inner portions of which being indicated by the numeral 3 and the outer portions by the numeral 4. It is to be noted that

the inclined surfaces are arranged at opposite angles, and the face afforded by the surface 4 may be either straight or concaved. The point of intersection between the surfaces 3 and 4, is indicated for distinction by the numeral 5 and this point of intersection is arranged in a plane with the upper face of the plane 2, and the angle of inclination of the said surfaces 3 equal or correspond to the angle edge 6 of a safety razor blade 7 or 8. The safety razor blade 7 has only one edge provided with a cutting surface, while the blade 8 is of the type known as the double cutting edge.

The blade is first laid upon the plane 2 and is from thence moved thereover until its pointed edge contacts with the point of intersection 5 between the angle surfaces 3 and 4. The angle edge of the blade will now be brought into contact with the surface 3 and a further movement of the blade will cause the same to be directed over the angle surface 4 which, as disclosed by Figure 3 of the drawing, will cause the sharpened edge of the blade when riding over the surface 4 to be sharpened in an easy and expeditious manner. When the double blade 8 is employed the said blade is moved in opposite directions over the plane 2 and onto the sharpening surface 4 so that both edges of the blade will be sharpened at a single operation. I desire to state that I have had long experience with razor blade sharpeners, and have manufactured and sold many of the well known types thereof. From such experience I have found that all of the sharpeners are defective in some respects, and most especially those that are operated by moving the blade over an abrasive surface. Most of such surfaces are concaved and the pointed edge of the blade is not brought directly into contact therewith. Also with such devices the heel portion of the blade is not ground, it being understood that the heel is provided at the juncture of the blade with the sharpened edge thereof and unless this heel is ground with the shaving edge the blade cannot be successfully sharpened.

It is believed that the foregoing description when read in connection with the drawing will fully and clearly set forth my improved sharpener and the advantages thereof but obviously I do not wish to be restricted to the specific structure herein shown and described and, therefore, hold myself entitled to make such changes therefrom as fairly fall within the scope of what I claim.

Having described the invention, I claim:

A sharpening device for safety razor blades, comprising a block having one of its faces at the central portion thereof depressed to provide a horizontal plane surface and inner and outer inclined surfaces arranged at different inclinations to each other and having connection with each other, the point of connection between the inclined surfaces being arranged in a

10

plane with the horizontal surface and the inclination of the inner surface coinciding to the bevel edge of a razor blade while resting on a horizontal surface to permit sharpening of the cutting edge of the blade on the outer surface when engaged therewith and the blade moved on the horizontal surface endwise of the block.

WILLIAM J. KOLLER.

84

15

90

20

96

25

106

30

105

35

110

40

115

45

120

50

125

55

130

60

135

65

140

70

145

75

150