Nov. 8, 1932. G. P. HURST 1,886,483

KNIFE SHARPENER

Filed Dec. 12, 1930

Fig-1-

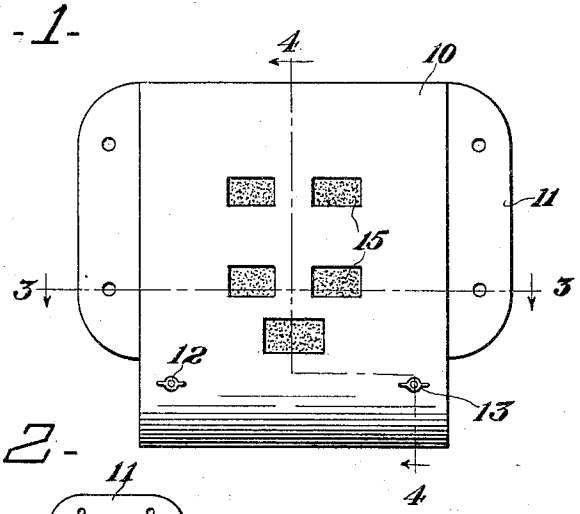


Fig-2-

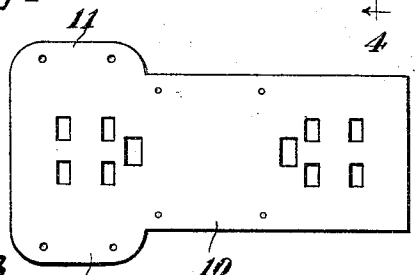


Fig-3-

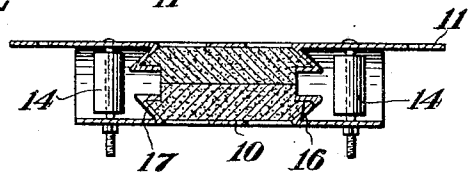


Fig-4-

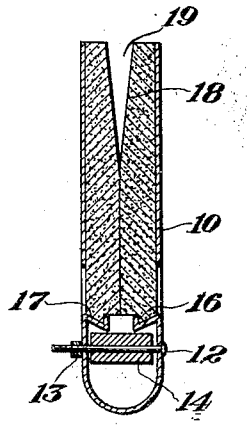
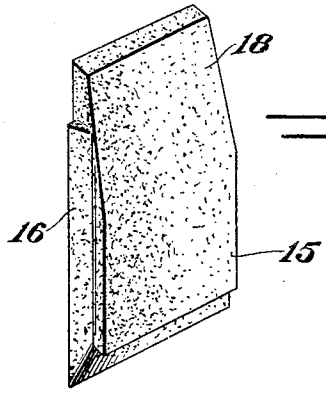


Fig-5-



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UNITED STATES PATENT OFFICE

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KNIFE SHARPENER

Application filed December 12, 1930. Serial No. 501,945.

This invention relates to sharpeners and more particularly to knife sharpeners of the stationary type against which a blade is drawn.

Another object of the invention consists in the employment of multiple sharpening elements disposed in confronting relation and between which a knife blade is to be drawn to sharpen both side edges in a single operation.

A further object of the invention embodies a spring mounting for the sharpening devices whereby the latter will be yieldably retained in position for use for the beveling of the opposed side edges of the knife to the same degree.

More specifically stated the spring mounting is provided with protectors against which the sharpened edge may be struck without nicking or dulling same.

With the above and other objects in view, the invention further consists of the following novel features and details of construction, to be hereinafter more fully described, illustrated in the accompanying drawing and pointed out in the appended claim.

In the drawing:

Figure 1 is a front elevation of the present invention.

Figure 2 is a plan view of the spring support in blank form.

Figure 3 is a horizontal sectional view taken on line 3—3 of Figure 1.

Figure 4 is a sectional view taken on line 4—4 of Figure 1.

Figure 5 is a perspective view of one of the sharpening elements and the retaining means therefor.

Referring to the drawing in detail wherein like characters of reference denote corresponding parts, the reference character 10 indicates generally an elongated plate having attaching ears 11 arranged upon opposite sides thereof and adjacent one end for the purpose of securing the device in position for use upon a wall structure or the like. Said plate is bent intermediately upon itself to dispose the ends thereof in spaced parallelism as suggested in Figure 4 of the drawing, presenting the plate of V-shaped formation. Said ends are adjustably retained in the aforementioned positions through the employment of bolt members 12 having wing nuts 13 upon the outermost protruding ends thereof. Said bolt members are passed through the upstanding ends of the plate immediately above the connecting portion. Roller members, such as indicated at 14, preferably constructed of wood, are carried upon those portions of the bolt members between the adjacent sides of the parallel ends for purposes to be better understood in the following description of the invention. Abrasive elements in the nature of stones 15 of elongated flat like formation are provided with attaching fins 16 upon the sides and lower end thereof for coaction and connection with ears 17 of substantially V-shaped formation in cross section and struck from the spaced parallel limbs of the plate member, substantially as illustrated in Figures 3 and 4 of the drawing. The abrasive stones or sharpening elements 15 are beveled upwardly and outwardly from the confronting sides thereof, as at 18, to provide a pocket member 19 of V-shape formation within and through which the blade of a knife or other cutting element may be drawn. Being that the pocket member 19 is of V-shape formation, both side edges of the knife will be dressed or otherwise beveled to the same degree. In the instance of the knife blade descending between the abrasive elements, due to excess of pressure or due to the inherent weight thereof, the roller members 14 will come into use to protect the sharpened edge from being nicked, dulled or otherwise ruined.

The invention is susceptible of various changes in its form, proportions and minor details of construction and the right is herein reserved to make such changes as properly fall within the scope of the appended claim.

Having described the invention, what is claimed is:

A knife sharpener formed from a single blank of material bent to provide an attaching plate of U-shaped formation presenting the same with spaced parallel limbs, attaching ears of substantially V-formation struck inwardly from each of said limbs or the con-

fronting sides thereof, sharpening elements having beveled attaching fins at the side and bottom edges thereof, the fins of the sharpening elements engaging in the V-shaped ears of the U-shaped attaching plate, a bolt and nut connection passing through the limbs of the plate at a point adjacent the connecting portion thereof, and roller members carried by said bolt and disposed between the said plates to protect the sharpening edge of a knife when inserted between the sharpening elements.

In testimony whereof I affix my signature.

GEORGE P. HURST.