May 4, 1926. 1,583,715

J. V. HOUSTON

DEVICE FOR STROPPING AND HONING RAZOR BLADES

Filed April 15, 1924

Fig. 1.

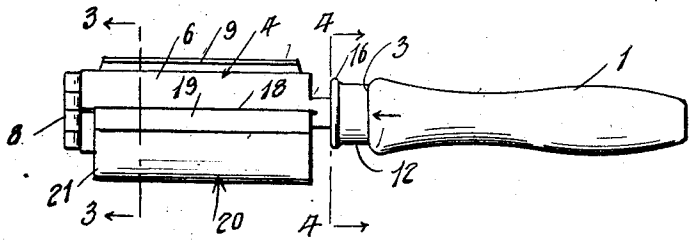


Fig. 2.

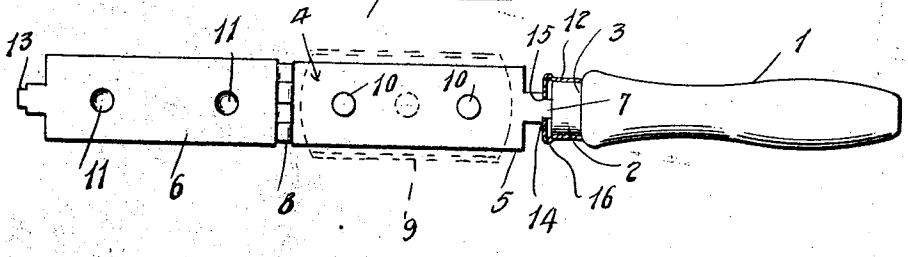


Fig. 3.

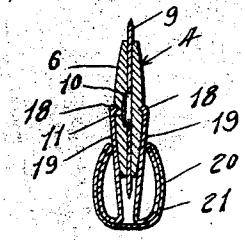
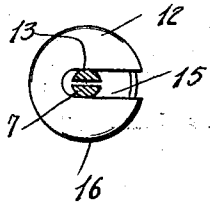


Fig. 4.



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UNITED STATES PATENT OFFICE.

JOHN V. HOUSTON, OF KLAMATH FALLS, OREGON.

DEVICE FOR STROPPING AND HONING RAZOR BLADES.

Application filed April 15, 1924. Serial No. 706,761.

To all whom it may concern:

Be it known that I, JOHN V. HOUSTON, a citizen of the United States, residing at Klamath Falls, in the county of Klamath and State of Oregon, have invented certain new and useful Improvements in Devices for Stropping and Honing Razor Blades; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable other skilled in the art to which it appertains to make and use the same.

This invention relates to devices for sharpening safety razor blades, and has for its primary object the provision of a novel device of this kind through the medium of which a double edged safety razor blade may be readily and efficiently stropped or honed by hand.

A further object of the invention is the provision of a stropping and honing device of the character stated by means of which first one and then the other edge of the blade may be sharpened and which shall include means adapted to protect the edge not being sharpened and adapted to form a rest for the device during the sharpening operation and a fulcrum on which the device may be rocked at the completion of each sharpening stroke as is customary in the stropping and honing of razor blades.

A further object of the invention is the provision of a stropping and honing device of the character stated which shall be simple and durable, to which the razor blades may be readily applied and removed and which may be manufactured and sold at a comparatively low cost.

With the above and other objects in view, the invention consists in the construction, combination and arrangement of parts hereinafter fully described and claimed, and illustrated in the accompanying drawing, wherein:

Figure 1 is a plan view of a safety razor blade stropping and honing device constructed in accordance with my invention, the device being shown in condition for use,

Figure 2 is a similar view with the jaws of the clamp open and with the movable jaw locking element in section,

Figure 3 is a sectional view taken on the plane indicated by the line 3—3 of Figure 1, and

Figure 4 is a similar view taken on the plane indicated by the line 4—4 of Figure 1.

Referring to the drawing by reference numerals, 1 designates the handle of the stropping and honing device. This part may be made of wood, metal or any other suitable material, and it is reduced at its inner end to provide a cylindrical extension 2 and an annular shoulder 3. A clamp 4 which comprises a relatively stationary jaw 5 and a relatively movable jaw 6, is secured to the handle 1 by a shank 7 formed integrally with and extending from the inner end of the relatively stationary jaw 5. The relatively movable jaw 6 is connected at its outer end to the outer end of the relatively stationary jaw 5 by a hinge 8 and it is adapted to be swung into overlying position with respect to the jaw 5 when it is desired to secure a safety razor blade, such as 9, within the clamp and swung clear of this jaw when it is desired to remove the safety razor blade. The relatively stationary jaw 5 is provided with studs 10 which enter the openings in the razor blade 9 to hold the latter against any endwise or lateral movements with respect to the clamp 4. To receive the projecting ends of the studs 10 the relatively movable jaw 6 is provided with sockets or depressions 11. The relatively movable jaw 6 is secured in closed position by a cap 12 and a lug 13 the latter being formed integrally with and extending from the inner end of the jaw. The cap 12 is revolubly mounted on the reduced extension 2 of the handle 1 between the shoulder 3 and a shoulder 14 on the shank 7, as clearly shown in Figure 2. The end wall of the cap 12 is provided with a slot 15 which opens out through one side thereof and which receives the shank 7 and the lug 13. When the cap 12 is turned to position the slot 15 in the plane of the clamp 4, the relatively movable jaw 6 is locked in closed position, and when the cap is turned to position the slot at right angle to the plane of the clamp the relatively movable jaw is freed for movement into open position. When the relatively movable jaw 6 is in closed position it is under a slight pressure which tends to move it into opened position with the result that the lug 13 engages one wall of the slot 15 under sufficient pressure to prevent the accidental movement of the cap 12 from jaw locking to jaw releasing position. The cap 12 is held against any movement lengthwise of the device by the shoulders 3 and 14, and it is provided with an outwardly di-

rected edge 16 adapted to be gripped when moving it into jaw locking or jaw releasing position. In their outer sides the relatively stationary jaw 5 and the relatively movable jaw 6 of the clamp 4 are provided with longitudinal grooves which receive the inturned ends 18 of the spring jaws 19 of a clip 20. When in applied position, the clip 20 houses one edge of the razor blade 9, and it is provided with a rounded outer side 21 to adapt it to be used as a fulcrum on which the device may be rocked at the completion of each sharpening stroke as is customary in the stropping and honing of razor blades. The clip 20 protects the edge of the razor blade 9 that is not being sharpened.

Assuming that the clamp 4 is open, to secure a razor blade to the device, it is only necessary to position the blade upon the relatively stationary jaw 5 with the studs 10 passing through the openings of the blade. After this has been done, the relatively movable jaw 6 is swung into closed position and secured in such position by turning the cap 12 to arrange the slot 15 in the plane of the clamp 4. The clip 20 is then applied to the clamp 4 by sliding it thereon from the outer end thereof, and after this has been done, the device is ready for use. After one edge of the blade has been stropped or honed, the position of the clip 20 on the clamp 4 is reversed so as to expose the other edge of the blade so that it may be sharpened and house and protect the sharpened edge. To remove the sharpened blade from the device, it is only necessary to slide the clip 20 off of the clamp 4, then turn the cap 12 to position the slot 15 at right angles to the clamp with its open end outwardly of the relatively movable jaw 6, and thence swing this jaw into opened position.

From the foregoing description, taken in connection with the accompanying drawing, it should be apparent that I have provided a device through the medium of which a double edged safety razor blade may be readily and efficiently stropped or honed by hand, that a blade may be quickly applied to and removed from the device, and that the device is simple and inexpensive to manufacture.

It should be understood that the drawing is merely illustrative and does not pretend to give exact proportions.

What is claimed is:—

A device of the character set forth, comprising a handle provided at one end with a reduced cylindrical extension and an annular shoulder, a relatively stationary clamping member provided at its inner end with a shank immovaby secured in said end of the handle and having a shoulder arranged in spaced relation to the shoulder on the handle, a relatively movable clamping member pivoted to the outer end of said first named clamping member and provided at its free end with a lug, and a cap rotatably mounted upon the reduced extension of the handle and having an end wall contacting with the shoulder on the shank and a side wall contacting with the shoulder on the handle, said end wall having a radially extending slot for the reception of the lug on the relatively movable clamping member, and said shoulders retaining the cap in place.

In testimony whereof I affix my signature.

JOHN V. HOUSTON.