Jan. 19, 1926. 1,569,969

E. B. GIBFORD

RAZOR STROPPER

Filed Jan. 10, 1922

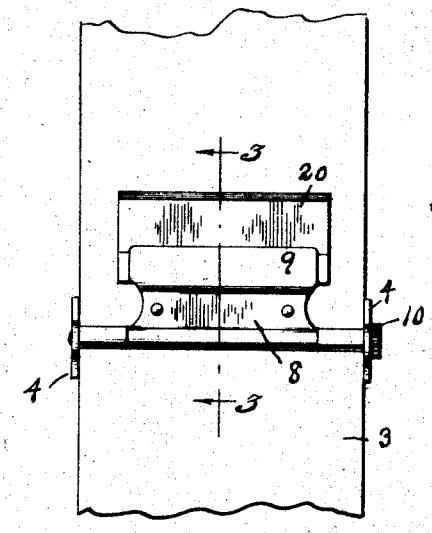


Fig. 1

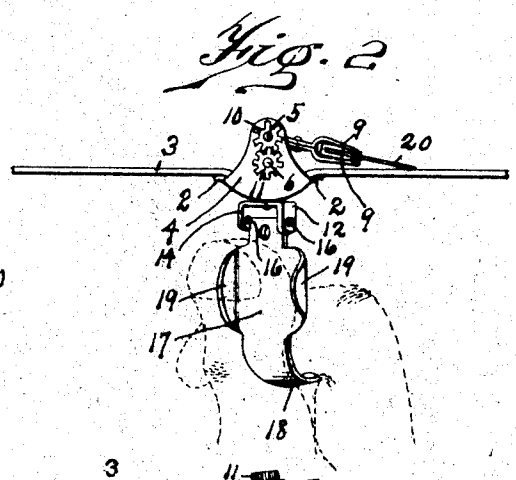


Fig. 2

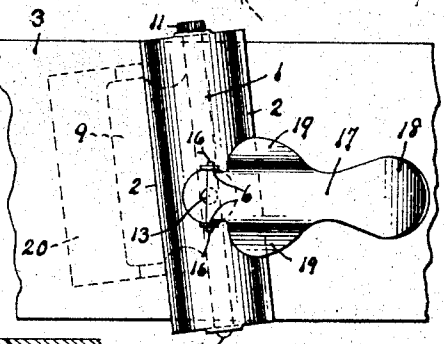


Fig. 5

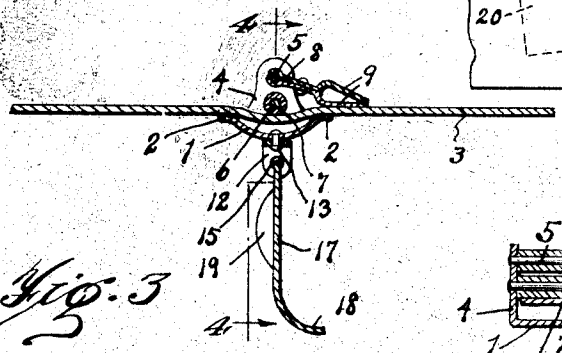


Fig. 3

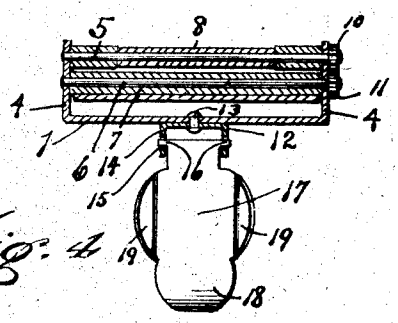


Fig. 4

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UNITED STATES PATENT OFFICE.

EDWARD B. GIBFORD, OF ADRIAN, MICHIGAN.

RAZOR STROPPER.

Application filed January 10, 1922. Serial No. 528,218.

To all whom it may concern:

Be it known that I, EDWARD B. GIBFORD, a citizen of the United States, and residing at Adrian, in the county of Lenawee and State of Michigan, have invented a new and Improved Razor Stropper, of which the following is a specification.

This invention relates to means for stropping razor blades, and its object is to provide a simple and efficient stropping mechanism which can be made at low cost and which can be folded so as to occupy a minimum of space.

In the accompanying drawing, Fig. 1 is a plan of this stropper with a strop and razor blade in operative position. Fig. 2 is a side elevation thereof. Fig. 3 is a section on the line 3—3 of Fig. 1. Fig. 4 is a section on the line 4—4 of Fig. 3. Fig. 5 is a bottom plan of a modified form of this stropper.

Similar reference characters refer to like parts throughout the several views.

A channel-like base 1 has curved edges 2 adapted to slide along the bottom side of the strop 3 and has end ears 4 bent up parallel to each other and at right angles to the strop. These ears are perforated to receive the shafts 5 and 6, a roller 7 being mounted on the shaft 6 which is so positioned that the axis of the roller 7 is parallel to the top of the strop and the roller depresses it between the edges 2 thus causing greatly increased friction between the roller and strop.

A blade holder 8 having the resilient jaws 9, is secured to the shaft 5 and the two shafts are connected by the gears 10 and 11. A stirrup 12 is mounted on the pivot 13 secured to the base 1, and its ears 14 have holes 15 to receive the small lateral trunnions 16 on the handle 17. This stirrup 12, the pivot 13 and the trunnions 16 constitute a swivel between the handle 17 and the base 1. The handle has a curved end 18 and side flanges 19 to position the first finger and thumb of the hand which moves the blade back and forth along the strop, as indicated by the dotted lines of Fig. 2.

Any desired type of blade 20 may be inserted between the jaws and the blade will be swung around on the axis of the shaft 5 each time the movement is reversed. The swivel connection between the base and the handle permits the stropper to move along the strop without binding. The curved edges 2 of the base cause very little friction so that the razor may be moved back and forth along the strop with a minimum expenditure of work. The jaws 9 which engage the razor blade may be given any form necessary to properly grip substantially every type of blade or the holder in which it is mounted.

In Figs. 1 to 4 the stropper is shown with the pivot 13 equal distances from the side ears 4. When thus positioned the pull of the handle 17 conveyed to the base 1 by the pivot 13 causes the roller 7 and the shafts 5 and 6 to remain at substantially right angles to the edges of the strop 3. Many men, however, prefer to draw the blade 20 along the strop with the edge of the blade at an oblique angle to the edges of the strop, as indicated in dotted lines. This is accomplished by positioning the pivot 13 at one side of the middle of the base 1, as indicated in Fig. 5. The pull of the handle 17 now causes the "short" end of the base to always be in advance of the other end and the blade 20 to lie diagonally of the strop. Upon the reverse movement of the handle the base also changes its position so that the lines of stropping on opposite sides of the blades will cross.

The details and proportions of the several parts may all be changed by those skilled in the art without departing from the spirit of my invention as set forth in the following claims.

I claim:—

1. In a razor stropping device, the combination of a channel shaped base having rounded edges and upwardly extending perforated ears, a pair of shafts mounted in said ears and gears connecting the shafts, a roller on one shaft to depress the strop below the plane of the edges of the base, a razor blade holder mounted on the other shaft, and a handle connected to said base by a universal joint at one side of the middle point of said razor blade holder and comprising a plate having a curved outer end and side flanges to receive a finger and the thumb of the hand by which the stropping device is moved along the strop.

2. In a razor stropping device, the combination of a channel-shaped base having rounded edges and upwardly extending perforated ears, a pair of shafts mounted in said ears, gears connecting the shafts, a

roller on one shaft to depress the strop below the plane of the edges of the base, a razor blade holder mounted on the other shaft, a flat handle, a universal joint comprising a pin connected to the base between its edges and at one side of the middle thereof, and a stirrup pivotally mounted on said pin, said handle being pivoted to said stirrup on a line at right angles to the axis of said pin.

3. In a razor stropping device, the combination of a channel shaped base having rounded edges and upwardly extending perforated ears, a pair of shafts mounted in said ears and gears connecting the shafts, a roller on one shaft to depress the strop below the plane of the edges of the base, a razor blade holder mounted on the other shaft, and a handle connected by a universal joint to said base between said ears and at one side of the middle of the base so as to cause the base and blade holder to be at oblique angles to the edges of the strop as the stropper is moved back and forth along the strop.

EDWARD B. GIBFORD.