F. A. FULLER.

RAZOR STROPPING DEVICE.

APPLICATION FILED MAY 28, 1918.

1,304,675.

Patented May 27, 1919.

Fig. 1.

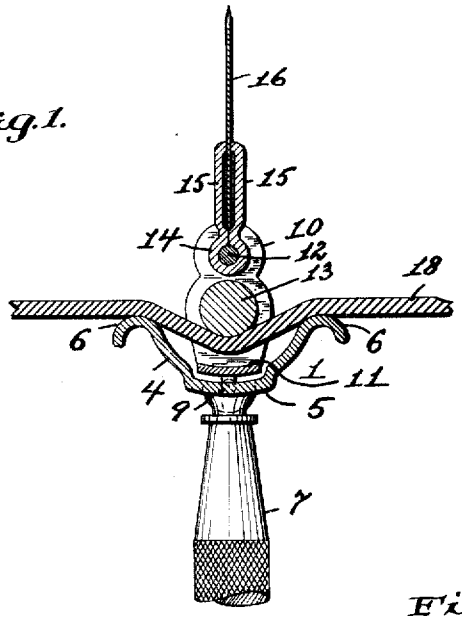


Fig. 5.

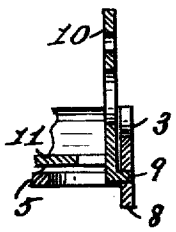


Fig. 2.

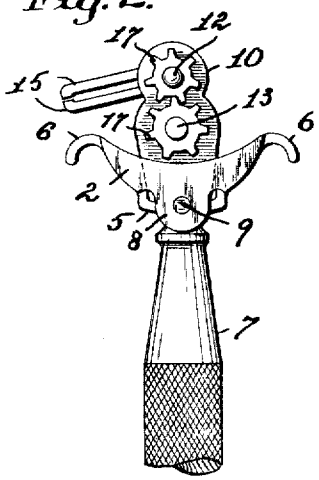


Fig. 3.

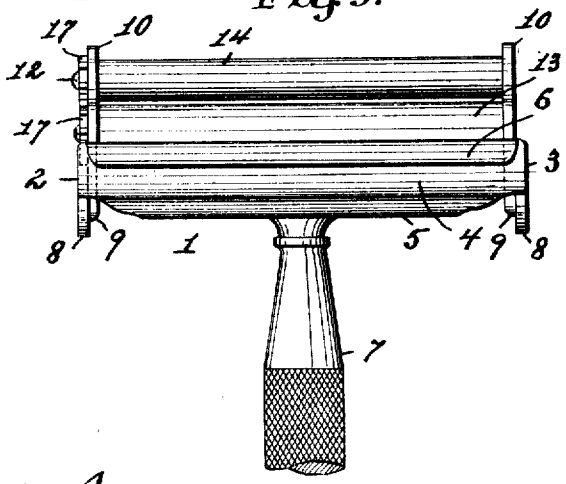
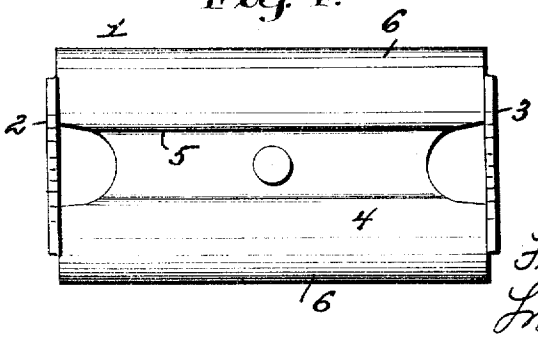


Fig. 4.



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RAZOR-STROPPING DEVICE.

1,304,675. Specification of Letters Patent. Patented May 27, 1919.

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To all whom it may concern:

Be it known that I, FRANZ A. FULLER, a citizen of the United States, residing in the city of Newark, county of Essex, and State of New Jersey, have invented certain new and useful Improvements in Razor-Stropping Devices, of which the following is a full, clear, and exact description, such as will enable others skilled in the art to which it pertains to make, construct, and use the same, reference being had to the accompanying drawings, and to numerals of reference marked thereon, forming a part of this specification.

This invention relates to improvements in stropping devices, and more particularly to such as are adapted especially for stropping safety razor blades. My invention has for its object, the production of a stropping device for safety-razor blades having a frame adapted to slide longitudinally of a strop, a blade holder being pivotally supported in said frame, and means for rocking the blade while in the frame, for stropping the edges thereof. Another object of my invention is to provide improved means to cause a strop to rock a pivotally supported blade holder with its pivotally-supported blade in such a manner as to positively prevent the blade from cutting or injuring the strop.

With these ends in view, my invention consists in certain novelties of construction, and arrangement of parts as hereinafter set forth, and pointed out in the claims. While the preferred form of my invention is illustrated in the accompanying drawings, yet it is to be understood that minor changes may be made without departing from the scope thereof.

In the drawings,

Figure 1 represents a side elevation of my improved device, partly broken away and partly in section, illustrating the manner in which the device is to be used for stopping the blade and illustrating the cutting edge of the blade in neutral relation to the strop.

Fig. 2 represents a side elevation of my improved device illustrating the pivotally supported blade holder support which carries the blade holder in stropping relation to the frame.

Fig. 3 represents a rear elevation of my improved device.

Fig. 4 represents a plan view of the frame holder, and

Fig. 5 represents a fragmentary sectional elevation illustrating the manner in which the blade holder support is pivotally secured to the body or frame of my device.

Similar numerals of reference refer to like parts throughout the specification and drawings.

In the drawings, 1 represents the body or frame of my improved stropping device, which body or frame may be stamped from sheet metal or the like, and afterward bent into the desired shape as shown.

Said body or frame comprises two opposite side portions 2 and 3 parallel each to each, and connected by, preferably a curved body portion 4, said body portion being provided with a depressed or channel-shaped portion 5 extending centrally and lengthwise of the frame. The front and rear edges of the body or frame are preferably bent downwardly to provide bearing or guiding surfaces 6—6 for the strop. The frame 1 is provided with a removable handle 7 which, if desired for convenience in packing, may be detached from the frame. The lower ends of the two opposite side portions 2 and 3 of the body or frame 1 are provided with integral downwardly extending apertured lugs 8—8 designed to receive the pivots 9—9 of the pivotally-supported blade holder support.

The pivotally-supported blade holder support may be stamped from sheet metal or the like, and afterward bent into the desired shape as shown. Said blade holde support comprises two opposite side portions 10 and 10, parallel each to each, and connected by a lower cross piece 11. The lower ends of the two opposite side portions 10 and 10 are provided each with an integral extension or pivot 9 preferably struck out from the lower cross piece 11 and by means of which the said blade holder support is pivotally connected to the apertured lugs

8—8 of the two opposite side portions 2 and 3 of the body or frame 1.

Journaled in the side portions 10 and 10 of the blade holder support is a cylindrical rod or shaft 12, and a roller 13 to be engaged by the strop when the device is used for stropping the blade, as illustrated in Fig. 1 of the drawings. The top rod or shaft 12 carries the blade holder 14 which holder may consist of a piece of sheet metal wrapped around said rod or shaft 12, and secured thereto in any convenient or desired manner, so as to provide resilient clamping jaws 15 and 15 to receive the razor blade 16 between themselves, as has been common in general heretofore.

The side portions 10 and 10 have upper and lower holes forming bearings for the ends of the cylindrical rod or shaft 12, and the roller 13, both extending transversely of the blade holder. The rod or shaft 12 and roller 13 are connected by means of pinions or gears 17 and 17, so that drawing the device along the strop will tend to turn the upper rod or shaft 12 carrying the blade holder 13 and when the direction of sliding the device is reversed, the said upper rod or shaft 12 will be turned over according to the principles already well understood in the art.

The manner of pivotally and yieldingly connecting the blade holder support with the body or frame 1 of the device, as above described, provides positive means for preventing the cutting edge of the blade from cutting or gouging the strop during the stropping operation.

The operation of the device is as follows: a safety razor blade is inserted between the resilient clamping jaws 15—15 of the blade holder 14; the strop 18 is then passed over the bearing or guiding surface 6 at one end of the frame 1, through the pivoted blade holder support and under the roller 13 on said blade holder support and then out through and over the bearing or guiding surface 6 at the other end of the frame 1 of the device as clearly indicated in Fig. 1 of the drawings.

The attaching end of the strop (not shown) is hooked over any suitable support, while its opposite end (likewise not shown) is held in one hand. The other hand grips the handle 7 of the device, and reciprocates said device back and forth along the strop, thereby permitting the edge of the blade to be engaged with the strop.

The present invention provides a very efficient and exceedingly simple and inexpensive stropping device, the same being constructed of a minimum number of parts, which are of such shape as to lend themselves readily to manufacture by the use of suitable punches and dies from ordinary sheet metal, and which parts are reduced to the simplest operative efficiency; and further, the invention provides a safety razor stropping device in which the accidental cutting or injuring of the strop by the blade is positively prevented.

The forward and backward movement of the pivoted blade holder may be limited by the shape given to the lower cross piece 11, which as clearly indicated in Fig. 1 of the drawings, is so positioned in relation with the depressed or channel-shaped portion 5, which extends centrally and lengthwise of the frame, that when the blade holder is in a vertical or central position the parts are as clearly indicated in Fig. 1 of the drawings, but if the blade holder is moved forward or backward as indicated in Fig. 2 of the drawings, either one of the longitudinal edges of the lower cross piece 11 will engage with one of the side walls of the depressed or channel-shaped portion 5 of the frame 1 thereby limiting its movement in either direction.

Experience has demonstrated that the organization above described is a highly efficient one, and while I have shown the preferred embodiment of my present invention, I do not wish to be limited to the exact details of construction shown and described, as obvious modifications thereof, not involving the exercise of invention, may be made by any skilled mechanic, and such departures from what is herein set forth, I consider within the scope and terms of my claims.

I claim:—

1. A razor stropping device comprising a frame adapted to slide longitudinally of a strop, said frame being provided with a centrally arranged depressed portion extending lengthwise of said frame, a blade holder support comprising opposite side portions connected by a lower cross piece pivotally connected to said frame in the depressed portions thereof so that the forward and backward movement of said pivoted blade holder support is limited by the said centrally arranged depressed portion of said frame, a roller in said blade holder support, a blade holder pivotally connected to said blade holder support and means carried by the blade holder support for transmitting rotary movement to said blade holder from said roller.

2. A razor stropping device comprising a frame adapted to slide longitudinally of a strop, said frame being provided at each end with an integral strop guiding or bearing surface, and with a centrally arranged depressed portion extending lengthwise of said frame, a handle extending from the frame, a blade holder support comprising opposite side portions connected by a lower cross piece pivotally connected to said frame in the depressed portions thereof so that the

forward and backward movement of said pivoted blade holder support is limited by the said centrally arranged depressed portion of said frame, a roller in said blade holder support, the lower surface of which projects below the top of said strop bearing or guiding surfaces of the frame, a blade holder pivotally connected to said blade holder support, and means carried by the blade holder support for transmitting rotary movement to said blade holder from said roller.

This specification signed and witnessed this 22nd day of May, 1918.

FRANZ A. FULLER.

Witnesses:
FRED'K C. FISCHER,
ANNA EGAN.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."