M. O. WILLIAMS.

RAZOR STROP.

APPLICATION FILED AUG. 1, 1910.

1,072,288. Patented Sept. 2, 1913.

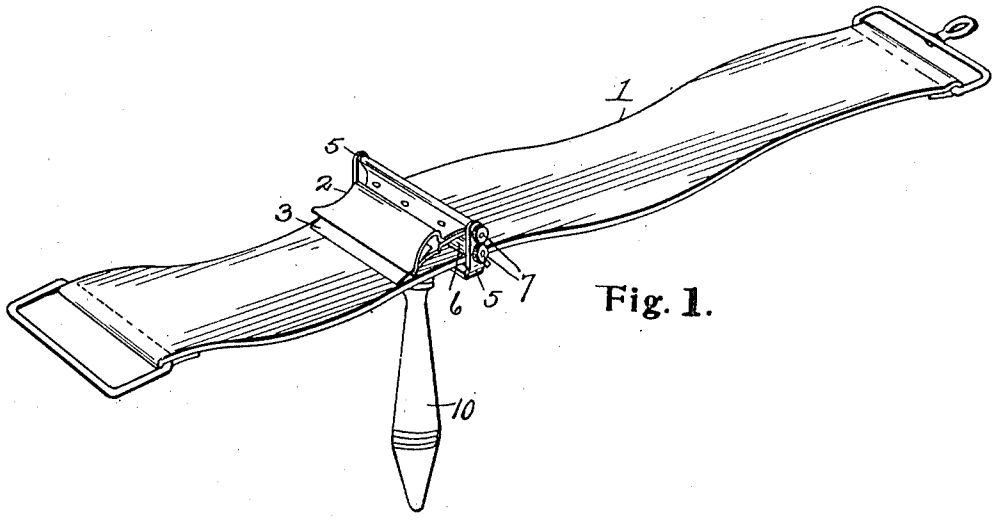


Fig. 1.

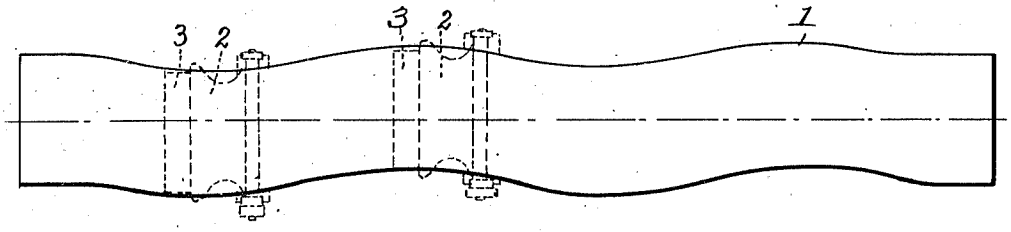


Fig. 2.

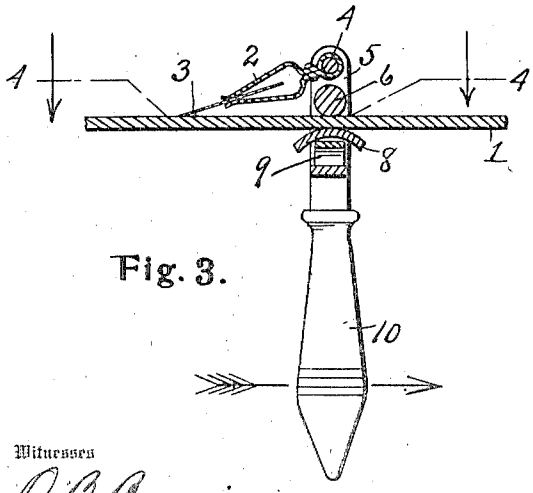


Fig. 3.

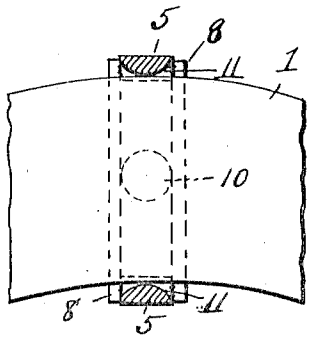


Fig. 4.

Witnesses

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UNITED STATES PATENT OFFICE.

MAURICE O. WILLIAMS, OF DETROIT, MICHIGAN, ASSIGNOR, BY MESNE ASSIGNMENTS, TO DAISY MANUFACTURING COMPANY, OF PLYMOUTH, MICHIGAN, A CORPORATION OF MICHIGAN.

RAZOR-STROP.

1,072,288. Specification of Letters Patent. Patented Sept. 2, 1913.

Application filed August 1, 1910. Serial No. 574,938.

To all whom it may concern:

Be it known that I, MAURICE O. WILLIAMS, a citizen of the United States, residing at Detroit, in the county of Wayne, State of Michigan, have invented certain new and useful Improvements in Razor-Strops; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the characters of reference marked thereon, which form a part of this specification.

This invention relates to strops especially adapted for stropping the blades of safety and other razors, and consists in the construction hereinafter more fully set forth and pointed out particularly in the claim.

The object of the invention is to provide simple and efficient means for giving to the razor blade a transverse movement across the strop as it is drawn longitudinally thereof to heighten the abrasive action of the strop upon the edge of the blade.

The above object is attained by the device illustrated in the accompanying drawing, in which:—

Figure 1 is a perspective view of my improved stropping device. Fig. 2 is a plan view of the strop, showing the reversed curves therein in a plane transversely of the strop. Fig. 3 is a fragmentary view in section through the strop and blade-holder. Fig. 4 is an enlarged fragmentary view in horizontal section, as on line 4—4 of Fig. 3.

To those skilled in the art of stropping razor blades, the importance of a "drawing stroke" of the blade across the strop as it is moved longitudinally thereof, is well understood; such a stroke producing a wiping action upon the edge of the blade, whereby the edge is refined and made to possess a condition of smoothness essential to a perfect shave.

My invention comprehends means for accomplishing the above stated result, and the accompanying drawings forming a part of this specification, illustrate one mode of carrying out my invention.

Referring to the structure shown in the drawings by the characters of reference marked thereon, 1 designates a strop, which is preferably made of leather, and which in form has the shape of a series of reverse bends or curves extending longitudinally thereof, the bends in the opposite margins of the strop coinciding so as to maintain the strop of a uniform width. The degree of deflection which these bends may be caused to assume from a straight line may be varied, as desired; it being only necessary to provide for sufficient transverse movement to attain the desired object.

Mounted upon the strop and movable longitudinally thereof is a blade-holder comprising the spring jaws 2 between which the blade 3 is adapted to be held during the operation of stropping, said blade-holder being carried on a rotatable shaft 4 journaled in the end pieces 5 of the blade-holder frame, the strop 1 passing between said end pieces and below an actuating roller 6 which is connected to the shaft 4 of the blade-holder to impart movement thereto by means of the gears 7, as shown in Fig. 1. The strop is held against the lower side of the actuating roller 6 by means of a pressure bar 8 urged upwardly by a suitable spring 9 confined between said bar and a portion of the frame, whereby sufficient friction is created between the pressure bar and the roller 6 to cause a rotation of said roller as the device is moved longitudinally of the strop, the rotation of the actuating roller 6 causing the blade-holder to swing from side to side to successively carry the blade into contact with the surface of the strop as the direction of movement of the device is changed, in a manner well understood in the art and described more completely in Letters Patent No. 951,240 issued March 8, 1910. For the purpose of manipulating the stropping device, it is provided with a handle 10 suitably connected with the frame.

The inner faces of the end pieces 5 are beveled or rounded, as shown at 11, so as not to roughen or abrade the margins of the strop as the stropping device is reciprocated longitudinally thereon, and to prevent unnecessary friction between said parts.

The end pieces 5 engage the opposite margins of the strop which is of a width to lie freely between them, so that as the blade-holding frame is drawn longitudinally thereon, the reverse bends in the strop will deflect the blade-holder laterally from a

straight course, causing the edge of the blade to slide transversely of the strop as it is drawn longitudinally thereof, whereby the abrasive action of the strop upon the edge of the blade is heightened by reason of the "drawing stroke" which is imparted to the blade as it travels longitudinally of the strop. By dotted lines in Fig. 2 is illustrated the lateral deflection of the blade-holder with respect to the strop, as it is drawn lengthwise thereof.

Having thus fully set forth my invention, what I claim as new and desire to secure by Letters Patent, is:—

As an article of manufacture, a razor strop having in its marginal edges a series of coinciding transversely disposed reverse bends.

In testimony whereof, I sign this specification in the presence of two witnesses.

MAURICE O. WILLIAMS.

Witnesses:
O. B. BAENZIGER,
I. G. HOWLETT.