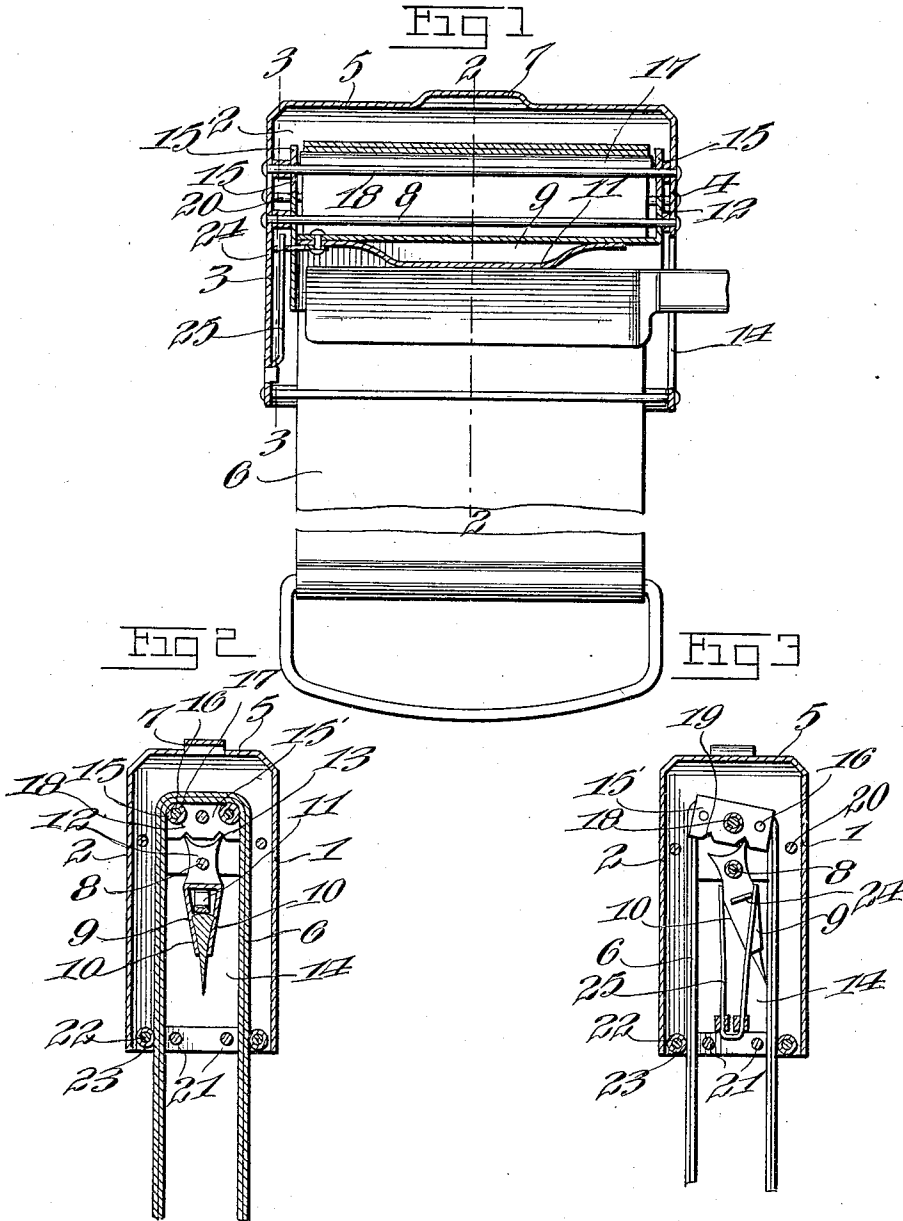


M. E. IRVING.
 RAZOR STROPPING MACHINE.
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1,064,332.

Patented June 10, 1913.



Witnesses

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MARY ELIZABETH IRVING, OF NEW YORK, N. Y.

RAZOR-STROPPING MACHINE.

1,064,332.

Specification of Letters Patent.

Patented June 10, 1913.

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To all whom it may concern:

Be it known that I, MARY E. IRVING, a citizen of the United States, residing at New York, in the county of New York and State of New York, have invented new and useful Improvements in Razor-Stropping Machines, of which the following is a specification.

This invention relates to razor stropping machines, the object in view being to provide a machine which is operable by means of a razor strop and which involves in connection with a razor blade holder, a suitable frame, and means actuated in a novel manner by the razor strop in the sliding movements of the latter for imparting oscillatory movement to the razor blade holder so as to bring the opposite sides of the razor blade alternately into contact with the inner surface of the razor strop which is manually operated in the direction of its length.

With the above and other objects in view, the invention consists in the construction, combination and arrangement of parts, set forth in and falling within the scope of the appended claim.

In the drawing:—Figure 1 is a vertical longitudinal section through a razor stropping machine embodying the present invention. Fig. 2 is a vertical cross section through the same, taken on the line 2—2 of Fig. 1. Fig. 3 is a vertical cross section taken adjacent to one end of the frame or casing on the line 3—3 of Fig. 1.

The frame of the machine is in the form of a five-sided casing and is preferably formed entirely of sheet metal bent to comprise the opposite sides 1 and 2, the opposite ends 3 and 4, and a top 5, the bottom being left open for the operation of the razor strop, shown at 6. To provide means for suspending the frame or casing, the top side thereof is preferably formed with parallel incisions of suitable length and the metal between the incisions is struck upward to form an elongated eye 7 adapted to receive a suspending strap by which the device, as a whole, may be supported at a suitable elevation for manipulating the ends of the strop beneath the frame of the device.

Mounted pivotally within the frame upon a centrally arranged pin or rod 8 is a razor blade holder 9 having the oppositely arranged side portions 10 which may converge downwardly, as shown in Fig. 2, or having any other desired shape imparted

thereto to grasp the blade of a razor between them, the blade being held firmly seated in the holder by means of a backing spring 11 bowed, as shown, and having one end secured to the casing, while the other end is left free. The holder is preferably provided at one end with an upwardly extending arm 12 having spaced teeth or points 13, the purpose of which will hereinafter appear. The arm 12 is preferably formed by extending one of the end walls of the razor blade holder above the pivot 8, as clearly indicated in the drawing. In order to insert the razor blade in the holder, one of the end walls of the frame is formed with an aperture 14.

Located adjacent to the holder 9 is a rocker 15 embodying oppositely arranged end yokes or plates 15' which are connected at opposite ends by pins 16 around which are sleeves or rollers 17. About centrally, the rocker is mounted on a rod 18 which passes through the end yokes and has its ends mounted in the opposite end walls 3 and 4 of the frame or casing. The razor strop passes over the rollers 17 so that when the opposite ends of the strop are alternately drawn downward, an oscillatory movement is imparted to the rocker and this movement is transmitted to the razor blade holder with which the rocker coöperates by means of notches 19 which receive the teeth 13 above referred to, as clearly shown in Fig. 2. The opposite end walls of the frame are further connected by pins or rods 20, 21 and 22, while rollers or sleeves 23 are placed around the pins 22 to form anti-friction bearings for the end portions of the strop where the latter pass outward and inward through the bottom of the casing.

In order to center the holder 9, I provide said holder with a projecting lug 24 at one end thereof and mount a V-shaped spring 25 at the adjacent end of the frame or casing and within the same, said spring embodying the upwardly diverging branches which lie on opposite sides of the lug 24, and thereby serve to return said lug and consequently the razor blade holder to a central position in order to avoid possibility of the edge of the razor blade coming in contact with the strop while the latter is moving upwardly.

By means of the construction above described, it will be seen that in the back and forth manipulation of the razor strop, the latter passing over the rollers 17 will impart

oscillatory movements to the rocker and these movements will be communicated to the razor blade holder in the reverse direction, causing the downwardly moving portion of the strop to ride over the edge portion at one side of the razor. When the movement of the strop is reversed, the edge of the razor blade is thrown to the opposite side and subjected to the abrasive action of the downwardly moving run of the strop at that side. In this way, the razor blade may be quickly and efficiently sharpened.

I claim:—

A razor stropping machine, comprising a frame, an oscillatory razor blade holder, an upwardly projecting arm at one end thereof having its top edge concaved to form acute

angled corners, a lug on the outer side of said arm, a two-armed spring secured to the frame and engaging said lug, a razor strop, a rocker pivotally mounted in the frame and comprising a pair of end yokes, one of which is provided with notches engaged by the acute angled corners of the arm on the holder, and spaced rods connecting said yokes at opposite sides of the axis of movement of the rocker over which the strop slides.

In testimony whereof I affix my signature in presence of two witnesses.

MARY ELIZABETH IRVING.

Witnesses:

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