

J. HOLTZMAN.
 RAZOR STROPPER.
 APPLICATION FILED OCT. 19, 1912.

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1,058,367.

Fig. 1.

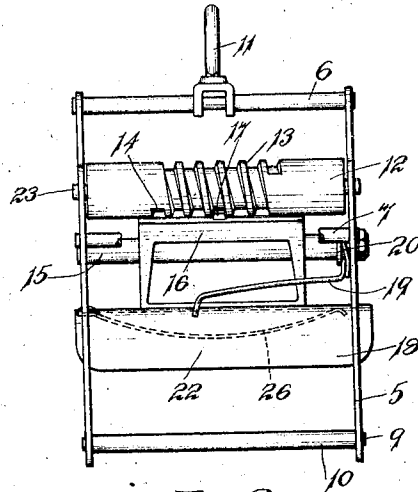
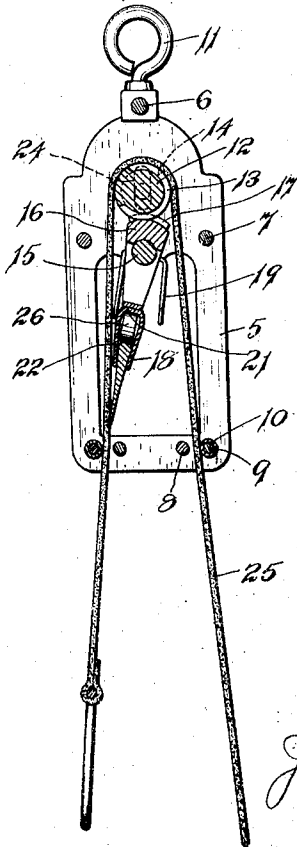


Fig. 2.



WITNESSES:

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RAZOR-STROPPER.

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To all whom it may concern:

Be it known that I, JOHN HOLTZMAN, a subject of the Czar of Russia, and a resident of Hartford, in the county of Hartford and State of Connecticut, have invented a new and Improved Razor-Strop, of which the following is a specification.

My invention relates to the class of devices employed for stropping the blades of razors, whether of the safety razor type or blades attached to handles, and an object of my invention, among others, is to provide a razor strop, exceedingly simple in construction and effective in operation.

A razor strop embodying my invention and in the construction and use of which the object above set out, as well as others, may be attained is illustrated in the accompanying drawing, in which—

Figure 1 is a view in side elevation of a razor strop embodying my invention, the strop being removed and parts broken away to show construction. Fig. 2 is a detail view in section through the device.

In the accompanying drawings the numeral 5 denotes end pieces of a frame that are spaced apart and rigidly held by a supporting stay rod 6, upper stay rods 7, and lower stay and guide rods 8 and 9, the guide rods 9 supporting guide rollers 10. These stay rods are secured to the end pieces in any suitable manner to rigidly hold the end pieces in fixed relation. A ring 11 is secured to the supporting stay rod 6 as a means for attachment of the device to a fixed object for use.

An actuating roll 12 is rotatably mounted in the end pieces and is provided with an actuating cam 13, in the form herein shown this cam being in the form of a screw thread, the grooves of which terminate in stop shoulders 14. A runner support 15 is secured at each end to the end pieces 5, and a runner 16 is mounted for reciprocating movement lengthwise upon said runner support, said runner having a lug 17 extending into the groove of the thread or cam 13.

A blade holder 18 is rigidly secured to the runner, and spring arms 19 press with their free ends on the opposite sides of the holder to hold it normally in a position intermediate the extremities of its lateral movement to be hereinafter described. The spring arms may be secured to any fixed

part of the device, as shown herein these arms being composed of a single piece wrapped at its center around the runner support 15 and held against lengthwise movement thereon by a collar 20. The blade holder 18 is composed of a base 21 and resilient side parts 22 resting against each other at their outer or free ends, said resiliency being such that the edge of a razor blade may be forced between the side parts so as to project a slight distance below their free edges.

The arbors 23 of the actuating roll 12 are located in slots 24 in the end pieces, and a strop 25 is passed over the actuating roll and along the opposite sides thereof between the stay rods 8 and rollers 10, the ends of the strop projecting sufficiently to enable them to be grasped by the hands of the operator for the purpose of stropping the blade. The location of the arbors 23 of the actuating roll in the slots 24 permits a frictional engagement of the lug 17 with the cam or thread of the actuating roll to a degree depending upon the force or pull exerted upon the strop 25. A spring 26 lies against the base within the holder, against which spring a blade seats when secured in the holder.

In operation, a blade being placed in the holder 18 and a pull being exerted upon one of the projecting ends of the strop, the actuating roll is pressed toward the runner causing the lug 17 and cam 13 to exert a frictional hold one upon the other to a degree depending on the force exerted upon the strop. This causes the runner to rotate slightly on the support 15 against the force of one of the spring arms 19, throwing the holder to one side and pressing the edge of the blade against that run of the strop upon which the pull is being exerted. This pull also rotates the actuating roll and the engagement of the lug and cam carries the runner and holder along the support 15 lengthwise thereof. When the lug comes in contact with a stop shoulder 14 the movement of the runner in this direction is arrested and before it strikes the end pieces thus avoiding any wedging action of the parts, but permitting free and unrestricted movement thereof at all times. When the runner has reached the limit of its movement in one direction along the support 15 a pull upon the opposite run of the strop reverses the action of the device, and the op-

eration is continued by pulling first upon one run of the strop and then upon the other until the blade has been sharpened.

While I have shown the invention as embodied herein in a preferred form of construction, this may be departed from to a greater or lesser degree without departing from the spirit or intent of the invention.

I claim:—

- 10 1. A frame, an actuating roll supported in the frame and having an actuating cam, a runner mounted between the ends of the frame and in engagement with the cam to be reciprocated thereby, a blade holder secured
15 to the runner, and a strop extending over the actuating roll and having its ends projecting beyond the frame.
2. A frame, an actuating roll supported in the frame and having an actuating cam, a
20 stop located on said roll, a runner in engagement with the cam to be reciprocated thereby and to strike said stop, a blade holder secured to the runner, and a strop
25 passed over the actuating roll and having its ends projecting beyond the frame.
3. A frame, an actuating roll supported in the frame and having an actuating thread constituting a cam, said thread terminating
in a stop shoulder, a runner having a lug
30 projecting into the groove in said thread, a blade holder secured to the runner, and a

strop passed over the actuating roll and having its ends projecting beyond the frame.

4. A frame having slots therein, an actuating roll journaled in said slots, said roll
35 having an actuating cam, a runner in engagement with the cam to be reciprocated thereby, a blade holder secured to the runner, and a strop passed over the actuating
roll and having its ends projecting beyond
40 the frame.

5. A frame, an actuating roll supported in the frame and having an actuating cam, a runner in engagement with the cam to be reciprocated thereby, a blade holder secured to
45 the runner, means for yieldingly retaining the holder normally in a mid position, and a strop passed over the actuating roll and having its ends projecting beyond the frame.

6. A frame including end pieces, an actuating roll supported between the end pieces
50 and having a cam, a runner supported between said end pieces upon a runner support mounted in said end pieces and in engagement with said cam, and a blade holder
55 secured to the runner, said actuating roll being arranged to receive a strop by means of which the roll is rotated.

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Witnesses:

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