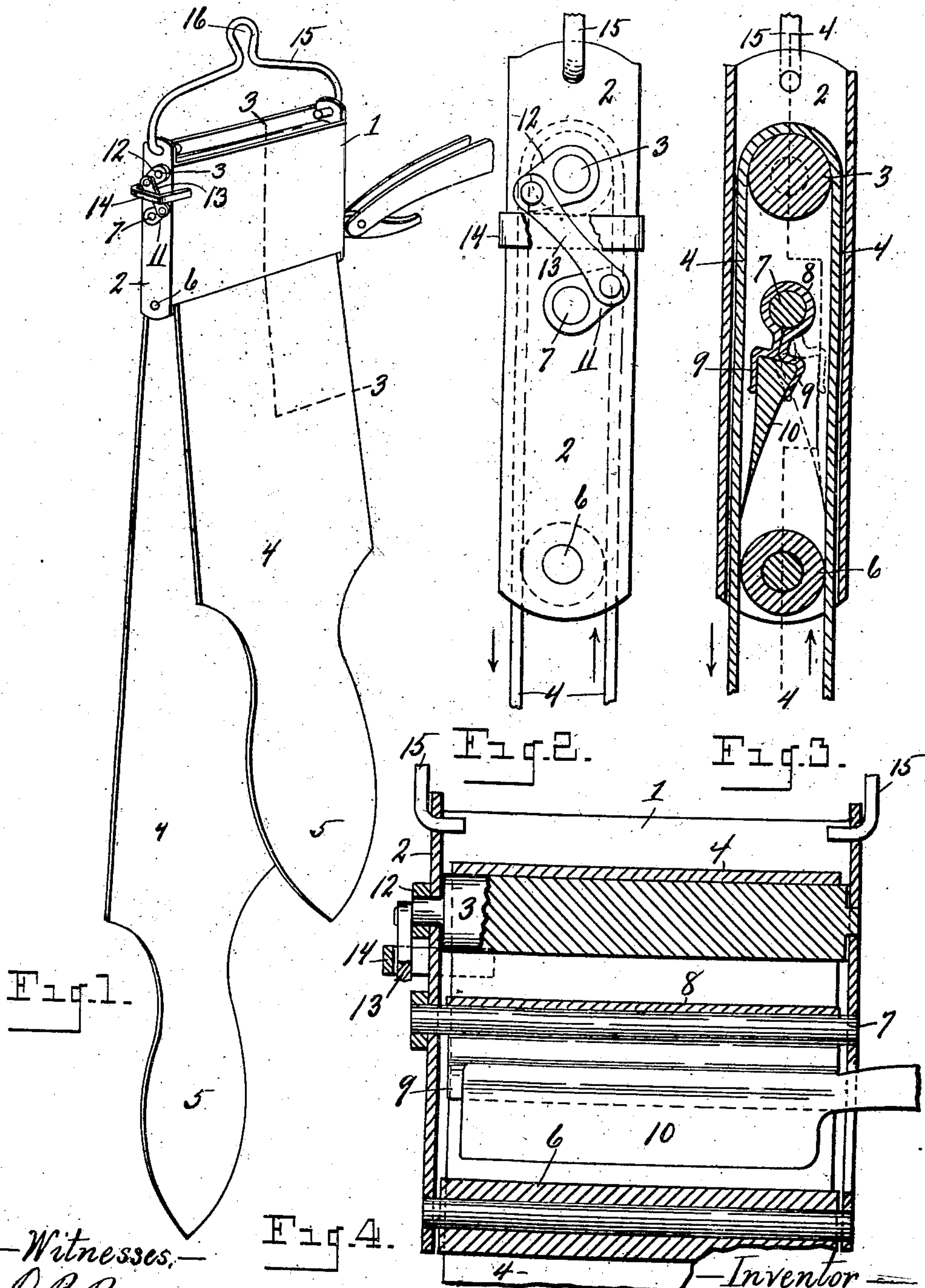


J. LORENZEN.
STROPPING MACHINE.
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943,311.

Patented Dec. 14, 1909.



Witnesses:
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UNITED STATES PATENT OFFICE.

JENS LORENZEN, OF FREMONT, OHIO, ASSIGNOR TO HENRIE CLAUSS, OF FREMONT, OHIO.

STROPPING-MACHINE.

943,311.

Specification of Letters Patent.

Patented Dec. 14, 1909

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To all whom it may concern:

Be it known that I, JENS LORENZEN, a citizen of the United States, residing at Fremont, in the county of Sandusky, State of Ohio, have invented certain new and useful Improvements in Stropping-Machines; 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 figures of reference marked thereon, which form a part of this specification.

This invention relates to a stropping machine, especially designed for stropping razor blades, and consists in the construction and arrangement of parts hereinafter fully set forth and pointed out particularly in the claim.

The object of the invention is to provide a simple inexpensive and efficient machine, wherein the razor may be perfectly and quickly stropped by a manipulation of the strop, which causes the razor blade to alternately swing from side to side into contact with the moving strop, as it is drawn longitudinally through the machine in opposite directions in reciprocal succession.

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

Figure 1 is a perspective view of a stropping machine embodying my invention, showing a razor in position therein for stropping, the handle of the razor being broken away. Fig. 2 is an end elevation of the device, the ends of the strop being broken away as well as a portion of the guard which crosses the connecting link at the end of the case. Fig. 3 is a central, transverse section as on line 3—3 of Fig. 1. Fig. 4 is a central, vertical section as on line 4—4 of Fig. 3.

Referring to the characters of reference, 1 designates a metallic case having parallel sides connected by the opposed ends 2, all of which parts are preferably formed integral. Journaled in the ends of the case near the top thereof and extending longitudinally, is a roller 3 over which the strop 4 is adapted to pass, said strop describing a loop around said roller, the portions of the strop within the case lying parallel with and adjacent to the sides thereof, and the ends

of the strop extending from the opening in the bottom of the case, as clearly shown in Fig. 3. The strop is of sufficient length to enable it to be drawn longitudinally forth and back through the case in reciprocal succession, by grasping the terminal portions 5 and successively drawing thereon.

Journaled between the ends of the case near the bottom thereof, and lying between the opposed portions of the strop within the case is a roller 6 which keeps the end portions of the strop separated and causes them to draw through the case parallel with the sides.

Journaled in the ends of the case and extending longitudinally thereof a short distance below the upper roller 3, is a rock shaft 7. Fixed to said rock shaft is a clip 8 having the opposed spring jaws 9 adapted to embrace the back of a razor blade 10. Upon the outer end of the rock shaft 7 is a crank arm 11. Upon the outer end of the roller 3 is a crank arm 12 which stands in a direction opposite to crank arm 11. Pivoted at its opposite ends to the ends of said crank arms is a connecting link 13. By causing the crank arms to stand in opposite directions and connecting their outer ends by means of the link 13, a partial rotary movement of the roller 3 in either direction will impart a corresponding movement to the rock shaft 7 in the opposite direction. Secured to the case and embracing the connecting link 13 is a guard 14.

With the blade of a razor in position between the spring jaws 9, as shown, a longitudinal reciprocation of the strop will cause a partial rotation of the roller 3 in opposite directions, thereby imparting a rocking motion to the shaft 7 through the medium of the connecting link 13, causing the edge of the razor to swing from side to side into contact with the strop in reciprocal succession accordingly as the direction of movement of the strop is reversed, the arrangement being such as to cause the edge of the blade to swing into contact with that portion of the strop which is being drawn outwardly from the case and away from that portion which is passing into the case, thereby obviating liability of cutting the strop and causing the blade to instantly shift when the direction of movement of the strop is reversed.

Attached to the ends of the case is a bail

15 having an eye 16 therein adapted to be engaged by a hook, whereby the case may be held while the strop is being drawn there-through in the operation of honing.

5 By varying the tension on the strop, the pressure of the blade against the strop as it is being drawn through the case, may be varied at pleasure.

10 This stropping machine is adaptable for stropping razors of the ordinary type and for stropping safety razor blades.

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

15 A blade stropping device comprising an inclosing case having straight parallel sides, a roller journaled between said sides at the top of the case, a similar roller journaled between said sides at the bottom of the case, 20 said rollers being disposed within the case an equal distance from the sides thereof, a strop looped through the case over the upper roller in a manner to cause the opposed por-

tions thereof within the case to lie in parallel relation contiguous to said straight sides and 25 to occupy the space between said sides and said rollers, the ends of the strop passing out of the case between the sides thereof and the periphery of the lower roller, a blade-holder journaled in the case between the upper and 30 lower rollers equidistant from said sides, said blade-holder being adapted to swing to carry the blade from side to side into contact with the sides of the strop lying against the straight side walls of the case, and means 35 connecting said blade-holder with the upper roller to effect a movement of the holder by the rotation of the roller as the strop is drawn thereover.

In testimony whereof, I sign this specification in the presence of two witnesses. 40

JENS LORENZEN.

Witnesses:

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