A. L. SILBERSTEIN.

RAZOR STROP.

APPLICATION FILED AUG. 5, 1909.

950,872. Patented Mar. 1, 1910.

Fig. 1.

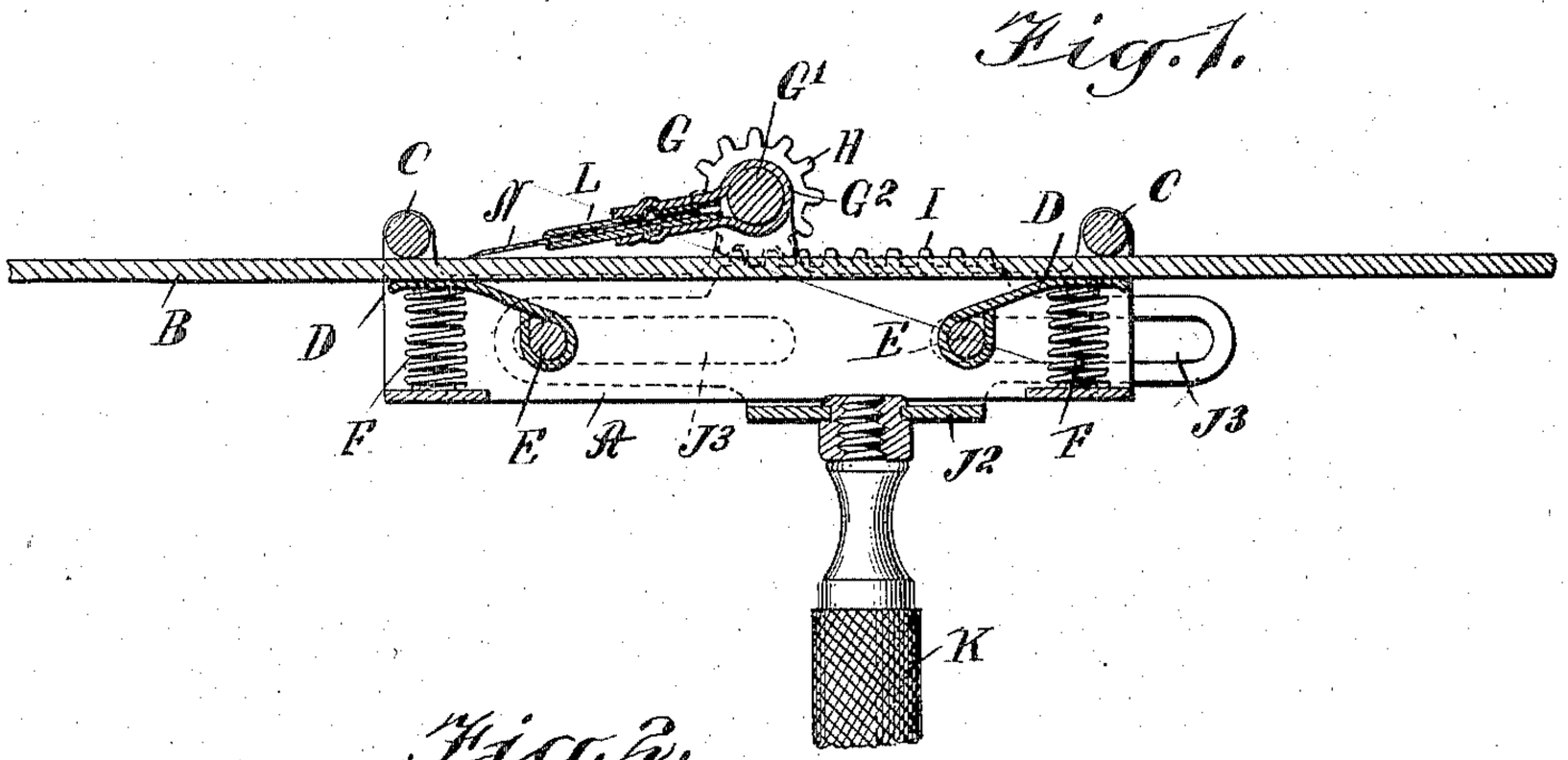

Fig. 2.

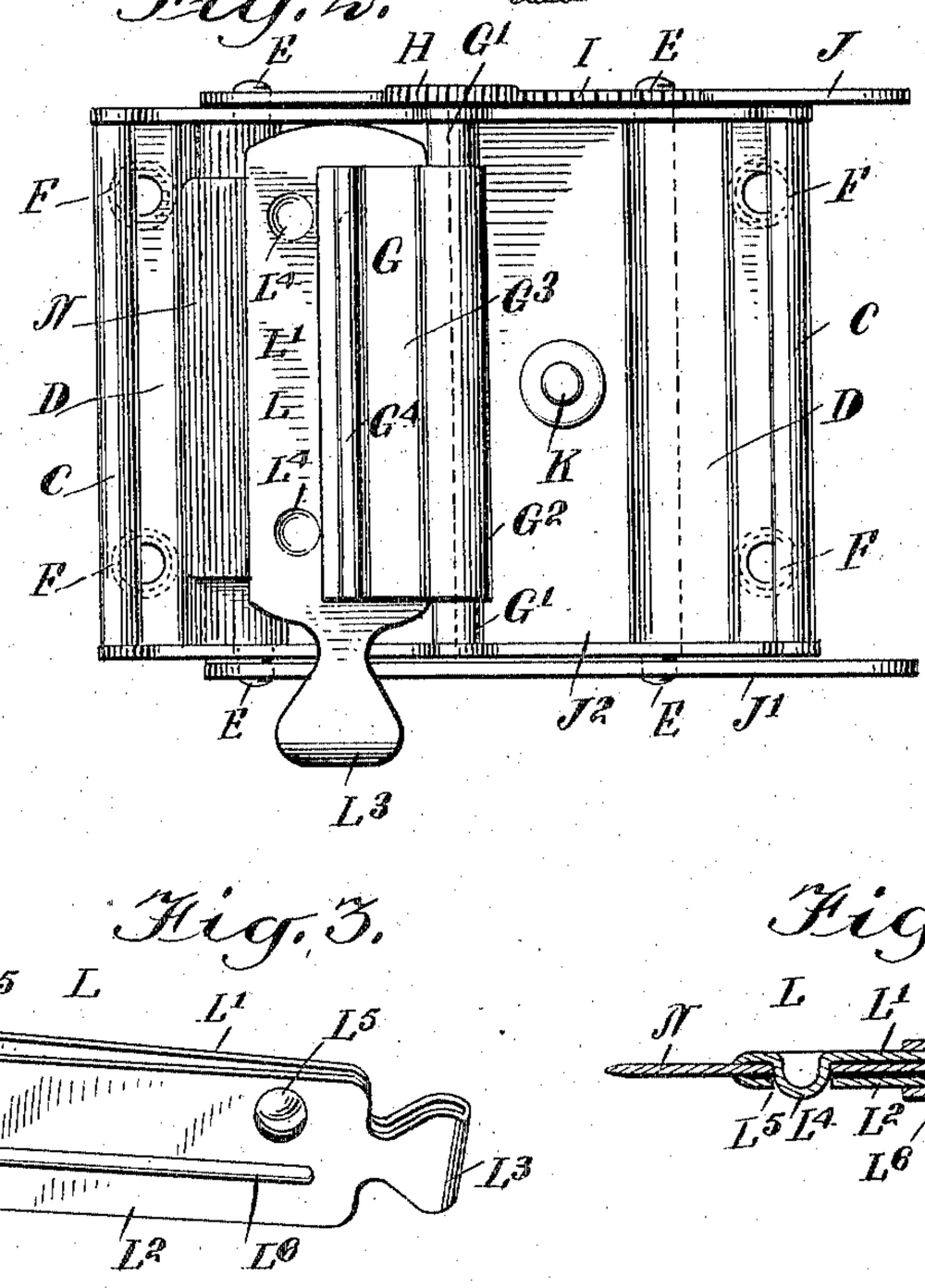

Fig. 3.

Fig. 4.

WITNESSES

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RAZOR-STROP.

950,872. Specification of Letters Patent. Patented Mar. 1, 1910.

Application filed August 5, 1909. Serial No. 511,314.

To all whom it may concern:

Be it known that I, ALBERT L. SILBERSTEIN, a citizen of the United States, and a resident of the city of New York, borough of Manhattan, in the county and State of New York, have invented a new and Improved Razor-Strop, of which the following is a full, clear, and exact description.

The invention relates to safety razor strops, such as shown and described in the Letters Patent of the United States, No. 580,231, granted to me April 6, 1897.

The object of the present invention is to provide a new and improved razor strop, more especially designed for accurately stropping thin razor blades, of the Gillette and other types, in a very simple and effective manner and without much exertion on the part of the operator. For the purpose mentioned the rocker of the razor strop is adapted to receive a removable blade holder having retaining means for holding the razor blade in position.

A practical embodiment of the invention is represented in the accompanying drawings forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the views.

Figure 1 is a longitudinal section of the razor strop; Fig. 2 is a plan view of the same with the leather strop omitted; Fig. 3 is a perspective view of the blade holder; and Fig. 4 is an enlarged sectional side elevation of the rocker, the blade holder in position on the rocker, and the razor blade in position in the holder.

A slide or casing A is adapted to be moved lengthwise on the strop B of leather or other suitable material, the strop passing between fixed members C and movable members D arranged in pairs on the ends of the slide or casing A. The fixed members C are in the form of round bars extending transversely across the top of the strop B, and the movable members D are in the form of flat plates fulcrumed on transversely extending pivot pins E, held in the sides of the slide or casing A and projecting somewhat beyond the said sides, as indicated in Fig. 2, for a purpose hereinafter more fully explained. The free ends of the movable members D are pressed on at the under side by springs F, held on the slide or casing A, so that the strop B is clamped between the fixed members C and the movable members D, with a view to prevent a too rapid forward or backward movement of the slide on the strop B.

In the sides of the slide or frame A is mounted to rock the transversely extending shaft G′ of a rocker or carrier G, and at one end of the shaft G′ is secured a pinion H, in mesh with a rack I, formed or secured on one side J of a shifting frame, having a second side J′ connected by a cross bar J^2 with the side J, said sides J and J′ of the shifting frame being provided with elongated slots J^3, engaging the projecting ends of the pivot pins E previously referred to. The cross bar J^2 is provided with a depending handle K, to be taken hold of by the operator for moving the shifting frame forward and backward until the movement thereof is limited by the ends of the slots J^3 abutting against the pins E.

The rocker or carrier G is provided with a clip G^2, formed from a single piece of sheet metal bent around the shaft G′ and secured thereto by solder or other means. The clip G^2 is provided with two spaced members G^3, receiving between them a blade holder L, for carrying the razor blade N. The blade holder L is formed from a single piece of sheet metal, doubled up to form at the doubled-up end a handle L^3 and to provide two spaced members L′ and L^2 for receiving between them the razor blade N, as plainly indicated in the drawings.

The member L′ is provided with inwardly struck up lugs L^4, registering with apertures L^5, formed in the other member L^2, it being understood that the razor blade N is provided with apertures adapted to engage the lugs L^4 when inserted between the members L′ and L^2 of the blade holder L. The members L′ and L^2 are also provided at their outer faces with longitudinally extending ribs L^6, adapted to engage correspondingly shaped grooves G^4 formed on the inner faces of the members G^3 of the clip G^2 of the rocker G.

In using the strop, the blade N is placed between the members L′ and L^2 of the blade holder L at the time the said members are spread apart, and when the blade is in position in the holder L, then the operator places the holder L with its two members L′ and L^2 firmly pressed together, between the members G^3 of the clip G, by inserting the holder L from that end of the rocker opposite the one having the pinion H, as will be readily understood by reference to Fig. 2.

Now, by having the ribs L^6 engaging the grooves G^4, it is evident that the blade holder L is always held in the same position in the rocker and as the blade N is correctly held in the holder L, it is evident that the outer cutting edge of the blade N stands at the proper angle relatively to the upper face of the strop B when the machine is used for stropping the blade N. When the blade holder L carrying the blade N is in position in the rocker G and one end of the strop B is hung up on a fixed support and the other end is taken hold of with one hand by the operator, then the latter takes hold with his other hand of the handle K and moves the slide or casing A lengthwise on the strop B, whereby the rocker G is caused to rock to bring the opposite sides of the cutting edge of the blade N alternately into contact with the upper or stropping face of the strop B to strop the razor blade. After the razor blade N is stropped, the operator takes hold of the handle L^3 of the blade holder L and pulls the same out of the clip G. The members L', L^2 of the removed blade holder readily open by their own resiliency, to allow convenient removal of the razor blade N for use in the safety razor.

Having thus described my invention, I claim as new and desire to secure by Letters Patent:

1. A razor strop, comprising a strop, a slide fitted to move lengthwise on the strop, said slide having spring pressed means for increasing the resistance of the slide on the strop and provided with projections on its sides, a blade carrier mounted to rock on the slide and having a pinion at one end, and a shifting frame on the slide, and having a rack meshing with the pinion on the blade carrier, said frame being provided with a handle and slots in its sides receiving the projections of the slide, whereby the shifting frame can be first moved independently of the slide to rock the blade carrier and then locked to the slide to permit the latter to be moved along the strop.

2. A razor strop comprising a strop, a slide fitted to move lengthwise on the strop, said slide having fixed and yielding members at its end between which the strop passes, a blade carrier mounted to rock on the slide and having a pinion at one end, and a frame provided with a rack engaging the pinion of the blade carrier, and with a handle projecting from its under side, said frame having a limited sliding movement on the slide, whereby the blade carrier will be rocked by the sliding movement of the frame and then the slide moved along the strop.

3. In a razor strop a casing having at its ends fixed and yielding members between which a strop is adapted to pass, and provided with projections on its sides, a blade carrier mounted to rock on the casing and having a pinion at one end, and a shifting frame having on its upper edge a rack engaging the pinion of the blade carrier and provided in its sides with slots receiving the projections of the casing and with a handle on its under side.

4. A razor strop, comprising a slide mounted to slide on the strop and provided at each end with a fixed member and a spring-pressed member, the strop passing between the said members, pivot pins for the spring-pressed members to turn on and held in the sides of the slide and projecting beyond the said sides, a shifting frame having sides, a connecting bar connecting the said sides with each other, the sides of the shifting frame having elongated apertures engaging the projecting ends of the said pivot pins, a rack on one of the said frame sides, a handle on the connecting bar of the shifting frame a rocker mounted on the said slide, a pinion on the said rocker in mesh with the said rack, and a blade holder for removable engagement with the said rocker.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

ALBERT LYMAN SILBERSTEIN.

Witnesses:
ISIDOR STERN,
LOUIS SCHNEIDER.