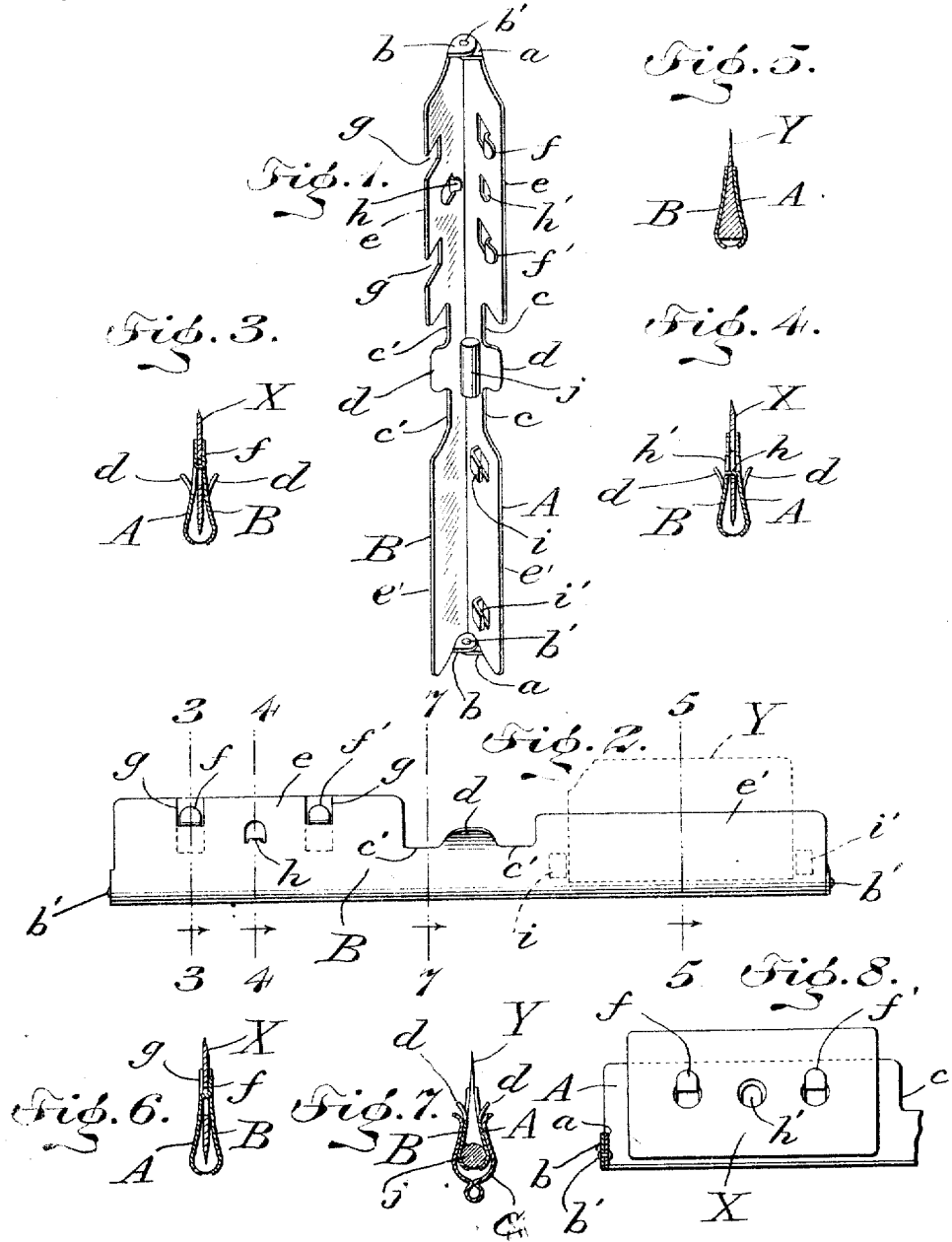


L. A. FLINKER.
 HOLDER FOR RAZOR BLADES.
 APPLICATION FILED FEB. 18, 1907.

949,999.

Patented Feb. 22, 1910.



WITNESSES

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LEON A. FLINKER, OF NEW YORK, N. Y.

HOLDER FOR RAZOR-BLADES.

949,999.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, LEON A. FLINKER, a citizen of the United States, residing at the city of New York, borough of Manhattan, county and State of New York, have invented a new and useful Holder for Razor-Blades, of which the following is a specification.

The invention is a device for holding safety-razor blades during the operation of sharpening the same.

The device is adapted to hold these blades while stropping the same either by hand or by machine, in which latter case the holder is secured within the machine in one well known way or another.

The device is adapted to hold the various types of safety-razor blades on the market, some of the well known types of which are the "Gillette," the "Zinn" and the "Star."

Figure 1 is a perspective view of my improved holder in an opened position; Fig. 2 is a side elevation of the holder; Figs. 3, 4 and 5 are cross sections on the lines 3—3, 4—4 and 5—5 of Fig. 2, respectively showing different types of safety razor blades in the holder; Fig. 6 is a cross section through the holder showing a double-edged blade held therein; Fig. 7 is a cross section on the line 7—7 of Fig. 2 and showing, also, means for locking the members of said holder in their closed positions; and Fig. 8 is a detail view, in side elevation, partly in section, showing the means for holding a "Gillette" safety blade against movement in any direction in the holder.

The holder consists of the members A, B, hinged or pivoted together at one of their side edges so that they may be opened for the introduction or removal of the blade or blades. As shown, the member A is provided at each end with a lug *a*, and the member B is similarly provided with a lug *b*, said lugs of the respective members being arranged in lapping order and connected pivotally by short pins *b'*. The manner of pivoting the members A, B, may however, be changed as desired by the skilled constructor. Each member is cut away or notched at *c c'* in its free edge, at or about the middle thereof, and between the notches, each member is formed with a finger piece *d*. The finger pieces of the members are bent outwardly, or in opposite directions, thus arranging the finger pieces so that they may

be easily grasped by the fingers for manipulating the members in opening them.

On one side of the notches *c c'*, the members A B are somewhat wider than on the other side of the notches, so as to produce clamping jaws *e e'* which are of different widths, although this is not essential. It is preferred to stamp each member from a piece of sheet metal, for simplicity and economy in manufacture. Each jaw has a rolled or curved edge at the hinged side of the holder, as shown in Figs. 3, 4, 5, 6 and 7, and the members A B when closed converge toward their free edges, whereby the jaws *e e'* of the respective members are adapted to meet one another, and thus the jaws may engage properly with the sides of the blade inserted in the holder.

For retaining the perforated double-edged blades of "Gillette" razors, it is preferred to construct the jaws *e* of the holder as shown by the drawings, while for holding a short razor blade of the conventional cross sectional form such as are used in the safety razor of the "Zinn" type or the "Star" type, the jaws *e'* are constructed to retain the blades against endwise or sliding displacement in the holder.

The jaw *e* of the member A is provided with one clip or with a plurality of clips or hooks *f f'* each punched or struck up from the metal of said member, and doubled or folded over upon or punched from said member so as to have the overlapping relation thereto shown more clearly in Figs. 1 3, 6 and 8 of the drawings. The companion jaw *e* of the member B is provided with notches *g, g'*, which are opposite to the clips or hooks *f f'*, whereby said clips are adapted to fit in the notches when the members A B are closed. It is preferred, also, to provide the jaws *e*, of the member, B, with the stud or lug *h*, while the jaw, *e*, of the other member, A, is provided with an opening *h'*, the latter being opposite to the stud or lug.

To use a blade X of the "Gillette" type in the holder, the members A B are opened, and the blade is placed flat on the jaw *e* of the member A, the clips *f f'* passing through two of the holes in the blade, as shown by Fig. 8. The blade is now moved edgewise in an inward direction toward the hinged edge of the holder, and the clips *f f'* are thus made to lap over the blade X, whereby the blade is confined between the jaw *e* of the

member A and the clips. Said clips serve to hold the blade against displacement in any direction on the member A, that is, it cannot move edgewise either longitudinally or transversely, nor can it move sidewise because the member A holds it against movement in one direction and the clips f f' in the other direction. The members A, B, may now be closed on the blade X without the possibility of the blade becoming displaced during the operations of opening or closing the holder, and when closed, the jaws e , e' , of said members engage with the respective sides of the blade. The holder may now be manipulated so as to sharpen one edge of the blade, after which the holder is opened, the blade reversed and reinserted in the holder, the latter is again closed, and the device manipulated to sharpen the other edge of the blade. When the members A, B, are closed, the stud h of one member passes through the middle hole of the blade X as shown by Fig. 4, and assists the clips f f' in retaining the blade in place in said holder.

For holding the blade Y of ordinary construction employed in some types of safety razors, the holder is provided on the jaw e' of one of the members, as A, with the lips i i' , see Fig. 1 and the dotted lines in Fig. 2. The lips are cut and bent from the metal of the member A, and said lips are spaced from each other equal to the length of the blade Y. The lips are near the ends of the jaw e' , and they are parallel to each other, so that the blade Y may be placed between them, as shown by dotted lines in Fig. 2. The lips hold the blade against endwise movement as the holder is opened and closed. When the members are closed, the jaws e' e' grip the blade, and the device can be manipulated readily for stropping the blade.

In the construction shown, wherein the members are pivoted together at their ends, the middle portion of the members are liable to bend when the holder is used by hand. To overcome this, a longitudinal reinforcing rib j is employed, said rib being attached to or made integral with the member A and arranged to engage with the member B when they are closed.

As before stated, the holder may be used in a sharpening machine or it can be worked by hand. In using it in a machine, the holder with the blade therein is adapted to be placed in a main holder of a sharpening machine as disclosed in another application filed even date herewith.

It is desirable at times to lock the members A, B, when the holder is used by hand, and to this end I may employ any suitable kind of fastener. As shown in Fig. 7, a spring clasp C is adapted to be slipped around the holder after the blade is inserted and the members closed thereon. This spring clasp may be of any suitable type

adapted to exert pressure on the members for preventing them from opening accidentally, said clasp being placed in position or removed at will.

In some cases, I may employ a holder having a single clip, such as f or f' , for holding a perforated safety razor blade, but it is preferred to use a plurality of clips on one member of the holder. Again, a holder for use in a sharpening machine may consist of a single member, such as A, provided with one or a plurality of clips, as f or f' .

It is preferred to employ a holder consisting of two members A, B, one having a plurality of clips and the other having a stud adapted to enter a middle opening of a three-hole safety razor blade. The clips and the stud on the respective members hold the blade against edgewise movement, either longitudinally or transversely, and the clip or clips retain the blade against lateral or sidewise movement when the holder is opened, so that the blade cannot drop out of the holder.

My holder is to be used primarily for sharpening a blade, but owing to the fact that the blade is held securely in place within the holder, the device may be used, also, as a razor for shaving purposes.

Having thus described the invention, what I claim as new, and desire to secure by Letters Patent is:—

1. As a new article of manufacture, a holder for safety razor blades having members for clamping the blade, one of said members being provided with means for positioning the blade thereon, which means also serve to prevent movement of said razor blade transversely of the plane of the blade when said members are in their non-clamping position.

2. As a new article of manufacture, a holder for safety razor blades having members for clamping the blade, one of said members being provided with clips for engaging with one face of the blade, said clips operating, also, when the members are in their non-clamping position to retain it against movement transversely of the plane of the blade.

3. As a new article of manufacture, a holder for safety razor blades having members pivoted together for clamping said blade, one of said members being provided with clips stamped up from said member and which clips occupy a plane substantially parallel to the plane of the member and extend in a direction away from the line on which the members are pivoted, the said clips serving to position a blade on the member and to preclude movement of the blade in a direction at right angles to the plane of the blade when the members are in their non-clamping position.

4. As a new article of manufacture, a

holder for safety razor blades having two clamping members, one of said members being provided with clips and the other member with notches extending inwardly from the outer edge of said member.

5. As a new article of manufacture, a holder for safety razor blades comprising two clamping members connected pivotally to each other and operating, when closed, to retain a blade to be sharpened in position between them, one of said members being provided with means adapted for engagement with one side or face of the blade, whereby when said clamping members are opened, said clips operate to retain the blade against movement in a direction at right angles to the plane of the blade.

6. In a device for stropping razors, a holder for safety razor blades having two members pivoted to each other for clamping a blade between them, the said members being pivoted lengthwise of the blade and each being provided with an extension having manually operated means independent of the clamping faces of the members for readily opening the members.

7. As a new article of manufacture, a holder for safety razor blades comprising a plurality of clamping members hinged together at their ends, the axis of the hinged connection being lengthwise of the members, and means positioned lengthwise of the members and intermediate the hinged ends thereof for reinforcing the holder.

8. As a new article of manufacture, a holder for safety razor blades provided with a clip adapted to extend through the opening in a blade and to embrace the face of said blade for securing it against movement in a direction at right angles to the plane of the blade.

9. As a new article of manufacture, a holder for safety razor blades comprising two hinged members, one having a clip for laterally embracing a blade, and the other a stud for engagement with said blade.

10. As a new article of manufacture, a holder for safety razor blades comprising two hinged members, one having a plurality of clips for laterally embracing a blade, and the other having a stud intermediate of the clips and adapted for insertion through an opening in the blade.

11. As a new article of manufacture, a holder for safety razor blades provided with a clip adapted to hold a blade against end-

wise movement, and also against movement at right angles to the plane of the blade.

12. A holder for safety-razor blades comprising two members hinged together, each member having a plurality of jaws adapted to cooperate with like jaws on the other member, the companion jaws at one end of said members having means for retaining an imperforate blade between them, and the companion jaws at the other end of said members having means for retaining a perforated blade in position between them.

13. A holder for safety-razor blades comprising members united by a hinge-connection, the axis of which extends lengthwise of the holder, said members having at one end complementary jaws adapted to confine an imperforate blade in position, and the other end of said members being provided with other complementary jaws adapted to confine a perforated blade in position between them.

14. A holder for safety-razor blades comprising members, a hinge-connection uniting said members at one side edge thereof, the axes of the hinge-connection being lengthwise of the holder, and a plurality of devices on the members for retaining perforated blades and imperforate blades, respectively, in position between said members at different portions thereof.

15. A holder for safety-razor blades comprising members united by a hinge, the axis of which is longitudinal with respect to said members, complementary jaws on said members at the respective sides of the transverse middle portion thereof, and devices on the respective jaws whereby a perforated blade may be retained between two of said jaws and an imperforate blade is adapted to be held in position between two other of said jaws.

16. A holder for safety-razor blades comprising two members hinged together, means on said members for holding a perforated blade in position between a certain longitudinal part of the members, and other means on the members for retaining an imperforate blade in position between another longitudinal part of said members.

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

LEON A. FLINKER:

Witnesses:

JAS. H. GRIFFIN,
H. I. BERNHARD.