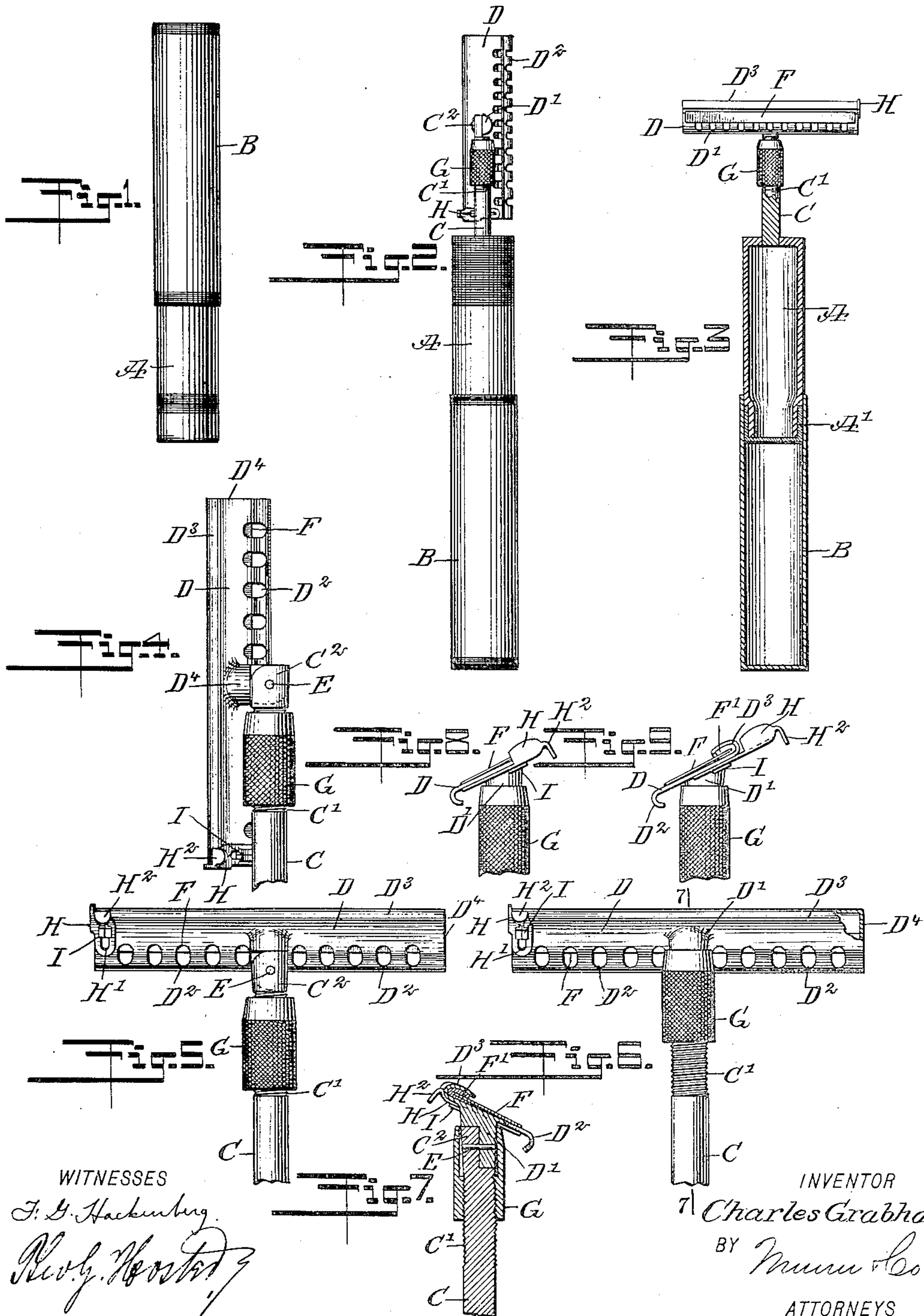


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SAFETY RAZOR.
APPLICATION FILED SEPT. 5, 1908.

917,589.

Patented Apr. 6, 1909.



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SAFETY-RAZOR.

No. 917,589.

Specification of Letters Patent.

Patented April 6, 1909.

Application filed September 5, 1908. Serial No. 451,770.

To all whom it may concern:

Be it known that I, CHARLES GRABHORN, a citizen of the United States, and a resident of Hoboken, in the county of Hudson and State of New Jersey, have invented a new and Improved Safety-Razor, of which the following is a full, clear, and exact description.

The object of the invention is to provide a new and improved pocket safety razor, arranged for quickly folding the parts into an exceedingly small space when the razor is not in use, and when folded the safety razor can be conveniently and safely carried in a vest or other pocket, and when extended is ready for use for its legitimate purposes.

The invention consists of novel features and parts and combinations of the same, which will be more fully described hereinafter and then pointed out in the claims.

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 side elevation of the improvement, showing the parts in a folded position; Fig. 2 is a side elevation of the same, showing the members partly extended; Fig. 3 is a front elevation of the same extended and the handle shown in section; Fig. 4 is an enlarged side elevation of the improvement, showing the parts in position immediately before swinging the frame and razor blade into final position; Fig. 5 is a rear elevation of the same and showing the frame and razor blade swung into active position and previous to being locked therein; Fig. 6 is a like view of the same, showing the frame locked in the extended position, parts of the frame being broken out; Fig. 7 is a cross section of the same on the line 7—7 of Fig. 6; Fig. 8 is a side elevation of the improvement; and Fig. 9 is a like view of the same showing the means for closing the frame at one end.

The handle of the pocket safety razor is made in two sections A and B, of which the section A is the frame-carrying section and the section B is the removable one and is adapted to be fitted onto either end of the section A, as indicated in Figs. 1 and 2. The frame-carrying section A is provided at one end with a centrally-arranged reduced portion or a stem C, having a threaded portion C', and terminating in a lug C², on which fits a lug D' depending from the under side of

the frame D and connected with the lug C² by a pivot pin E, to permit of swinging the frame D either into a right angle position (see Fig. 3) relative to the handle, or into a parallel position relative to the stem C, as indicated in Fig. 2. The frame D is adapted to carry the removable razor blade F, which is preferably of a thin piece of steel and has its cutting edge in close proximity to the guard D² formed on the front end of the frame D. The back of the plate F is reinforced by a doubled-up bar F' adapted to engage a pocket D³ formed on the rear end of the frame D.

On the threaded portion C' of the stem C screws a nut G adapted to pass over the lugs C², D', to thus inclose the pivotal connection between the frame D and the stem C, at the time the frame D is in a right angle position, thus holding the frame locked in this right angle position, as will be readily understood by reference to Figs. 3, 6 and 7. When the nut G is screwed down into the position shown in Figs. 2, 4 and 5, then the nut is out of engagement with the lugs C², D', and consequently the frame D can be swung into a parallel position relatively to the stem C. The lug D' is preferably at or near the middle of the frame D, and the stem C is of such a length that when the frame D is swung into parallel position, as shown in Figs. 2 and 4, then the lower end of the frame D is adjusted to the corresponding end of the handle section A, and the frame D is of such width that when in the folded or parallel position it lies within the segmental plane extending through the peripheral face of the handle section A. Thus when the frame D is in a folded position, the handle section B may be placed over the folded frame and onto the corresponding end of the section A, to inclose the same as indicated in Fig. 1. One end D⁴ of the pocket D³ is closed while the other end is open to permit of conveniently inserting or removing the reinforcing bar F' in and from the said pocket D³, it being understood that the razor blade F lies on top of the frame D and extends through the open slot in the front of the pocket D³, as plainly indicated in Figs. 7 and 9. The frame D and the razor blade F are made extremely narrow, and by arranging the bar F' and the pocket D³ in the manner described, the blade F is securely held in position on the frame D, and owing

to the narrowness of the blade further means for holding the same down on the frame D are not required, especially as the stiffness of the narrow razor blade F is sufficient to withstand the strain incident to shaving.

The open end of the pocket D³ is adapted to be closed by a slide H, to securely lock the razor blade in position on the frame D. The slide H is mounted to slide on the under side of the frame D, and is for this purpose provided with a slot H' engaged by a guideway I on the underside of the frame D (see Fig. 5). A small handle H² on the back of the slide H permits the operator to take hold of the slide, with a view to move the same into an open or a closed position, for the insertion or removal of the razor blade F and for locking the same securely in place on the frame.

The handle section A is preferably in the form of a receptacle for holding extra razor blades, and for this purpose the end of the section A opposite the one carrying the stem C is reduced, and on the reduced end is removably fitted a cap A', as indicated in Fig. 3. Thus when the cap A' is removed access is had to the interior of the section A, for placing razor blades in the section or removing the same therefrom.

The pocket safety razor shown and described is very simple and durable in construction, is composed of comparatively few parts, not liable easily to get out of order, and which can be readily and conveniently folded into a small space for conveniently storing and carrying the safety razor in a vest or other pocket.

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

1. A safety razor, comprising a handle having a stem projecting from one end thereof and provided with an integral threaded portion, the said stem extending beyond the threaded portion and terminating in a lug, a frame provided with a depending lug pivoted on the lug of the said stem, a nut screwing on the said threaded portion of the stem and adapted to inclose the pivoted connection between the said frame and the said stem to lock the frame in a right angle position on the handle, a razor blade having a sliding engagement with the frame, and means for securing the razor blade in position.

2. A safety razor, comprising a frame having an integral guard at the front and an integral pocket at the rear end, the pocket being open along the front edge, one end of the pocket being closed and the other end being open for the insertion and removal of the razor blade, movable means on the frame for closing the open end of the said pocket, and a razor blade having a reinforced back adapted to pass into the said pocket, the razor blade extending through the said open-

ing at the front of the pocket and lying flat on the top of the frame.

3. A safety razor, comprising a frame having an integral guard at the front and an integral pocket at the rear end, the pocket being open along the front edge, one end of the pocket being open for the insertion and removal of the razor blade, a slide on the said frame for closing the open end of the said pocket, and a razor blade having a reinforced back adapted to pass into the said pocket, the razor blade extending through the said opening at the front of the pocket and lying flat on the top of the frame.

4. A safety razor, comprising a frame having a guard at the front and a pocket at the rear, the pocket being open along the front thereof, one end of the pocket being closed and the other end being open for the insertion and removal of the razor blade, a slide having guided movement on the under side of the frame, adjacent to the open end of the pocket, the said slide being provided with a member extending at the end of the frame, and adapted to close the open end of said pocket.

5. A safety razor, comprising a handle and a frame carried by the handle and having a guard at the front and an integral pocket at the rear of the frame, the pocket being open along its front edge and one end of the pocket being open for the insertion and removal of the razor blade, a razor blade having a back adapted to fit in said pocket, the razor blade extending through the open front of the pocket and lying flat on the top of the frame, a guideway on the underside of the frame, and a slide provided with a slot engaged by said guideway, the slide having an angular member for closing the open end of the pocket, and a handle at one end of the slide for moving the same.

6. A safety razor, comprising a handle having a stem projecting from one end thereof and provided with an integral threaded portion, the stem extending beyond the threaded portion and terminating in a lug, a frame having a depending lug pivotally connected with the lug of the stem, and a nut having its lower portion internally threaded for engagement with the threaded portion of the stem, the upper portion of the nut being of greater internal diameter than the threaded portion and adapted to pass over the said lugs to inclose the pivotal connection between the frame and the stem.

7. In a safety razor, a frame having a longitudinal pocket formed at its rear, the pocket opening at its front at the top of the frame, the pocket being open at one end and closed at the other end, a razor blade having a back adapted to pass into said pocket, the blade lying flat on the top of the frame, a guideway on the underside of the frame adjacent to the open end of the pocket, and a slide having a

body member provided with a slot engaged
by said guideway and arranged to move
transversely of the frame, the said slide hav-
ing a member extending at right angles to
the body member and adapted to close the
open end of said pocket.

5 In testimony whereof I have signed my

name to this specification in the presence of
two subscribing witnesses.

CHARLES GRABHORN.

Witnesses:

ALEXANDRA GRABHORN,
ANTONETT GRABHORN.