H. A. VINCENT.

SAFETY RAZOR.

APPLICATION FILED JULY 24, 1917.

1,254,093. Patented Jan. 22, 1918.

Fig. 1.

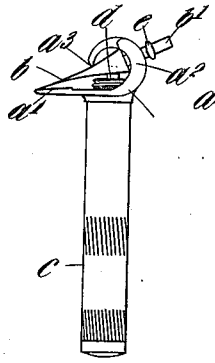


Fig. 2.

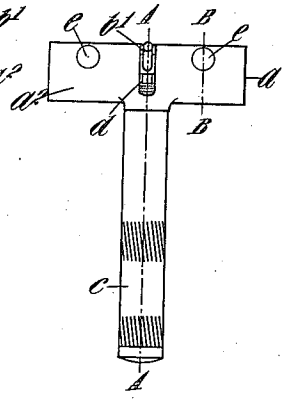


Fig. 3.

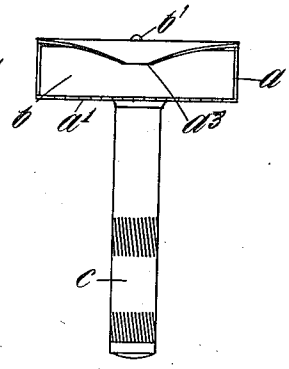


Fig. 4.

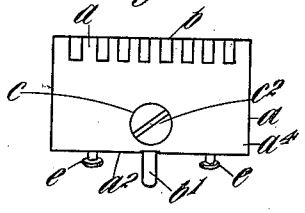


Fig. 5.

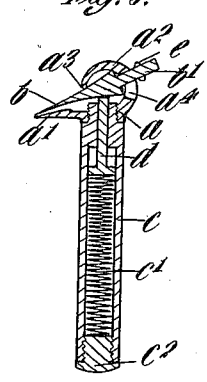


Fig. 7.

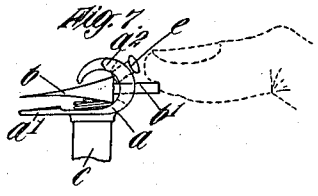


Fig. 6.



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UNITED STATES PATENT OFFICE.

HELIER ALEXANDRE VINCENT, OF LONDON, ENGLAND, ASSIGNOR, BY MESNE ASSIGNMENTS, TO MARIE-THERESE ELISABETH SALERNI, (NÉE COUCI,) OF SYDENHAM HILL, LONDON, ENGLAND.

SAFETY-RAZOR.

1,254,093. Specification of Letters Patent. Patented Jan. 22, 1918.

Application filed July 24, 1917. Serial No. 182,455.

To all whom it may concern:

Be it known that I, HELIER ALEXANDRE VINCENT, a subject of the King of Great Britain, residing at No. 20 Sydenham Hill, in the county of London, England, have invented certain new and useful Improvements in a new or Improved Safety-Razor, of which the following is a specification.

The present invention relates to a known construction of safety razor in which the blade is held in position against an overhanging lip or stop or lips or stops on a somewhat tray shaped holder proper by pressure caused by the inner end of the handle when it is screwed or fitted into or secured to the said holder proper. According to the said invention the said pressure is exerted through the medium of a resilient member carried by the inner end of the handle whereby the razor blade is secured in position without danger of injuring the blade and also with a maximum of simplicity of the parts thus facilitating cleanliness. The aforesaid resilient member is preferably a spring mounted pin working axially within the handle. It is also preferred to provide means such as a stem on the back of the blade projecting through the rear of the holder proper for preventing side movement of the blade and when a stem as aforesaid is employed for this purpose it is preferably arranged to be operable by the thumb or finger whereby the razor blade may be turned up from the guard so that the razor blade and holder may be effectively washed without removing the blade from the holder.

The said invention is hereinafter more particularly described with reference to the accompanying drawings which illustrate the preferred embodiment thereof.

Figure 1 of the said drawings is a side view of the device, Fig. 2 a rear view thereof, Fig. 3 a front view, Fig. 4 a plan, Fig. 5 a section taken on the line A A Fig. 2, Fig. 6 a section taken on the line B B Fig. 2 and Fig. 7 a side view showing the razor blade turned up from the guard under thumb pressure as hereinafter described.

In the following description the parts of the said drawings are referred to by the letters marked thereon the same reference letters indicating the same or like parts in all the said figures.

a is the holder proper which at its fore end a' is toothed to form the guard and at its rear part a^2 is of curved shape terminating at a^3 toward the fore part in a middle somewhat pointed overhanging part. b is the safety razor blade which has a stem b' at the rear which when the said blade is in the holder a protrudes to the rear through a slot a^4 therein. The guard a' is slightly recessed on the side nearer the razor blade b so that when the latter is in position it bears on the end portions of the guard only, leaving a slight space between the guard and razor blade for almost the whole of the length of the blade. c is the handle which is tubular and screwed into the holder proper a. The said handle has mounted within it at its inner end a pin d which is resiliently pressed outwardly by the helical spring c' within the handle which spring is retained under pressure therein by the screw c^2 at the outer end of the handle. Two adjusting screws e, e are provided in the rear of the holder proper a the inner ends of which bear on the back of the razor blade b when secured in the said holder a and constitute stops to keep the edge of the razor blade in proper position in relation to the guard a'. Sidewise movement of the razor blade b in the holder a is of course prevented by the position of the stem b' in the slot a^4. By examining the accompanying drawings, it will be observed that the stop a^3 is nearer the guard a' than the part where the pin d bears on the razor blade b. To secure the razor blade b in the holder proper a the handle c being separate from the said holder it is only necessary to place the razor blade in the holder proper a so that its stem b' is in the slot a^4 and the edge of the razor blade approximately coincident with the fore edge of the guard a', then to screw the handle c into the holder proper a whereupon the pin d bears against the razor blade and lifts it until it bears against the stop a^3 against the resilience of the spring c'. The handle c having been screwed home the razor blade b is securely gripped between the pin d and the stop a^3 and the relative positions hereinbefore explained of the said pin and stop are such that while the said handle c is being screwed home and the pressure of the pin d on the razor blade b gradually increased the said blade is caused thereby automatically and readily to assume the correct shaving angle and correct shaving position in relation to the guard a'. By pressing on the

protruding part of the stem b' by the thumb or finger the razor blade b may be lifted from the guard a' against the resilience of the spring c' as illustrated in Fig. 7 whereby the holder proper a and razor blade b may be washed by agitating them in water without removing the razor blade from the holder. By simply releasing the pressure on the stem b' the razor blade b again automatically assumes its correct shaving position with respect to the guard a'. The slot a^4 is of such length as to permit of this movement of the razor blade relatively to the holder proper a.

Instead of preventing sidewise movement of the razor blade b in the holder a by the engagement of the stem b' in the slot a^4 other means may be provided for the purpose such as lips at each side of the rear part of the holder proper a. This alternative is employed in cases where the razor blade is not provided with a stem as hereinbefore described.

The invention is not only applicable to devices in which the handle is screwed into the razor holder proper but is applicable to devices in which the handle is secured by other means as for example a bayonet joint.

What I claim and desire to secure by Letters Patent of the United States is:—

1. A safety razor comprising a holder for the razor blade, an overhanging stop thereon, a handle and a resilient member carried by the inner end of the said handle which bears against the inner surface of the blade at a part to the rear of the said stop to resiliently press a part of the outer surface of the blade, nearer the edge, against the said stop.

2. A safety razor comprising a holder for the razor blade, an overhanging stop thereon, a removable handle, a slidable pin arranged axially in the inner end of the said handle, a spring within the handle tending to press the said pin out from the inner end of the handle, the said pin when the said handle is in place bearing on the inner surface of the blade at a part to the rear of the said stop to resiliently press a part of the outer surface of the blade, nearer the edge, against the said stop.

3. A safety razor comprising a holder for the razor blade, an overhanging stop thereon, a handle the inner end of which screws into the said holder proper, a resilient member carried by the inner end of the said handle between which and the said stop the razor blade is held in position by the holder proper, a stem on the back of the razor blade and an aperture in the rear of the said holder to receive said stem and allow the razor blade to be tilted on the said stop and its edge part lifted from the guard, for the purpose set forth.

HELIER ALEXANDRE VINCENT.