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SAFETY RAZOR AND BLADE

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Fig. 1.

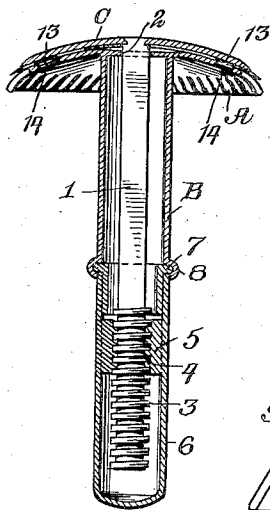


Fig. 2.

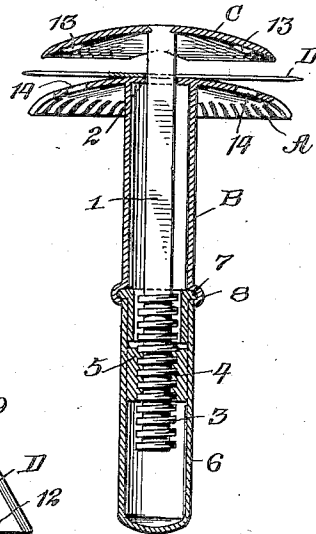


Fig. 5.

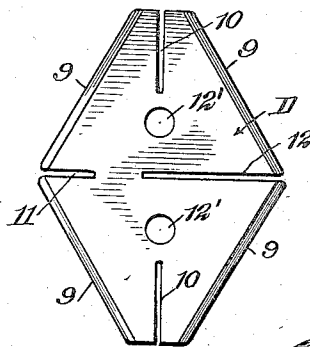


Fig. 3.

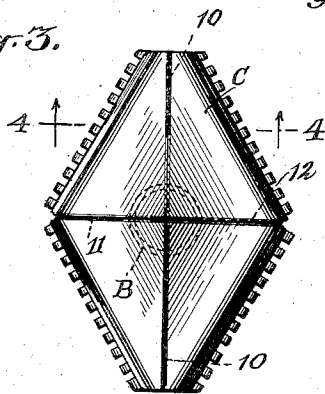


Fig. 4.

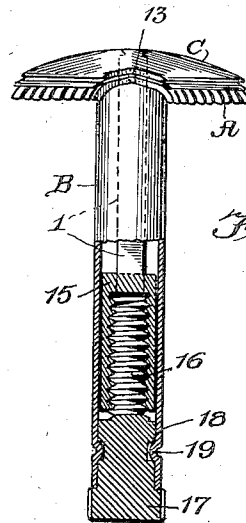


Fig. 6.

WITNESSES

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SAFETY RAZOR AND BLADE

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Application May 22, 1935, Serial No. 22,859

1 Claim. (Cl. 30—65)

This invention relates to an improved safety razor and blade.

One of the objects of the invention is to provide an improved construction of razor and blade, the latter having more than two and preferably four independent cutting edges so clamped between the guard and cap of the razor that all sections of the blade are flexed and securely held for shaving purposes.

A further object is to provide an improved construction of razor with improved means for clamping an improved construction of blade.

A further object is to provide a razor of this type with a blade of general diamond shape having slots extending inwardly between the four cutting edges thereof dividing the blade into four sections and so constructed as to permit the blade to be inserted and removed from the razor without the necessity of taking the razor entirely apart.

With these and other objects in view, the invention consists of certain novel features of construction and combinations and arrangements of parts, all of which will be more fully hereinafter described and pointed out in the claim.

In the accompanying drawing—

Figure 1 is a view in longitudinal section illustrating one form of my invention with the blade securely clamped in operative position;

Figure 2 is a view similar to Figure 1 showing the razor adjusted to space the cap from the guard and permit the blade to be inserted or removed;

Figure 3 is a plan view of the razor looking down upon the cap and showing parts beneath by dotted lines;

Figure 4 is a view in transverse section on the line 4, 4 of Figure 3;

Figure 5 is a plan view of the razor blade; and,

Figure 6 is a view partly in elevation and partly in section illustrating a modification.

A represents the razor guard, B a tubular handle fixed to the guard, and C a cap between which and the guard my improved blade D is clamped. The cap C is fixed to a shank 1 which is relatively narrow or thin and which extends through a slot 2 in the guard and at its lower or inner end is provided with a screw-threaded portion 3 which meshes with internal screw-threads 4 in a sleeve 5. This sleeve 5 is fixedly secured within a tubular handle extension 6 and the sleeve 4 at its upper end is made with an annular flange 7 fitting within an annular groove portion 8 in the lower end of handle B, so that the section 6 has a rotary or swivel coupling engagement with the

handle B, and can be turned to impart longitudinal motion to the shank 1 to move the cap C toward and away from the guard A as will be readily understood.

The cap C, blade D and guard A are all of general diamond shape in plan and the blade D is of flexible steel and is provided with four cutting edges 9, and between these cuttings edges—slots 10 extend inwardly from the ends of the blade and slots 11 and 12 extend inwardly from the sides of the blade, thus dividing the blade into four sections, each section having its own cutting edge 9. The blade is also preferably provided with openings 12 which add to the flexibility of the blade, and, furthermore, are useful in connection with clamping means to hold the blade while being sharpened.

I call particular attention to the fact that the slot 12 extending in from one side of the blade is appreciably longer than the other slots and extends beyond the center of the blade and this slot is sufficiently wide to receive the shank 1 therein, so that when the cap and the guard are sufficiently separated the blade may be inserted between them and positioned on the shank by a lateral movement of the blade, and when the cap is drawn down the blade will be flexed and all sections thereof will be securely clamped and held in proper shaving position. In order that the blade may be properly flexed, the guard B is of somewhat dome-shape, that is, its upper surface is generally convexed or tapered downwardly from its intermediate portion to its edges. As a matter of fact, the guard may be regarded as having four sections, each section tapering downwardly from the central portion of the guard toward its outer edge so that each section of the blade when bent over this dome-like form of guard will be properly flexed. The cap on its underface is shaped corresponding to the shape of the guard so that the blade is fully clamped throughout its surfaces between the guard and the cap.

To insure a maintenance of the blade in proper relation to the guard and cap, I provide on the underface of the cap four lugs 13 which move into the slots 10, 11 and 12 of the blade and into openings 14 in the guard A, thus when the cap is clamped against the blade and the blade against the guard these lugs projecting through the slots of the blade will absolutely hold the blade against any possibility of slipping or moving in any direction.

Figure 6 illustrates a modification of my razor with regard to the means for adjusting the cap

relative to the guard. In this form of the invention, the shank 1 is fixed to an internally screw-threaded sleeve 15 and a screw 16 engaging the internal threads of the sleeve 15 is formed with an enlarged head 17 projecting beyond the tubular handle B, so that when it is turned it will adjust the shank 1 and correspondingly adjust the cap C relative to the guard. To hold the screw 17 against longitudinal movement it is provided with an annular groove 18 with an inwardly pressed rib 19 on the handle B projecting therein as clearly shown in Figure 6.

While I have illustrated and described what I believe to be preferred embodiments of my invention, it is obvious that various slight changes and alterations might be made in the general form and arrangement of parts without departing from the invention, and hence I do not limit myself to the precise details set forth, but consider myself at liberty to make such changes and alterations as fairly fall within the spirit and scope of the appended claim.

I claim:

A safety razor including a guard and a cap, a flat shank rigidly fixed to the cap and extending through a slot in the guard, a tubular handle on the guard into which the shank projects, rotary means in the handle operatively connected to the shank and adapted when turned to cause the shank to move longitudinally in the handle, said cap and guard being of general diamond shape, and a diamond-shaped blade adapted to be positioned between the guard and the cap and having four cutting edges with slots extending inwardly between the cutting edges, one of said slots extending beyond the center of the plate and constituting an entrance slot so that when the blade is positioned with said last-mentioned slot in alignment with the shank, the blade can be moved into position between the cap and guard.

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