Nov. 8, 1932. A. J. BRIGGS 1,886,520

RAZOR

Filed June 29, 1931

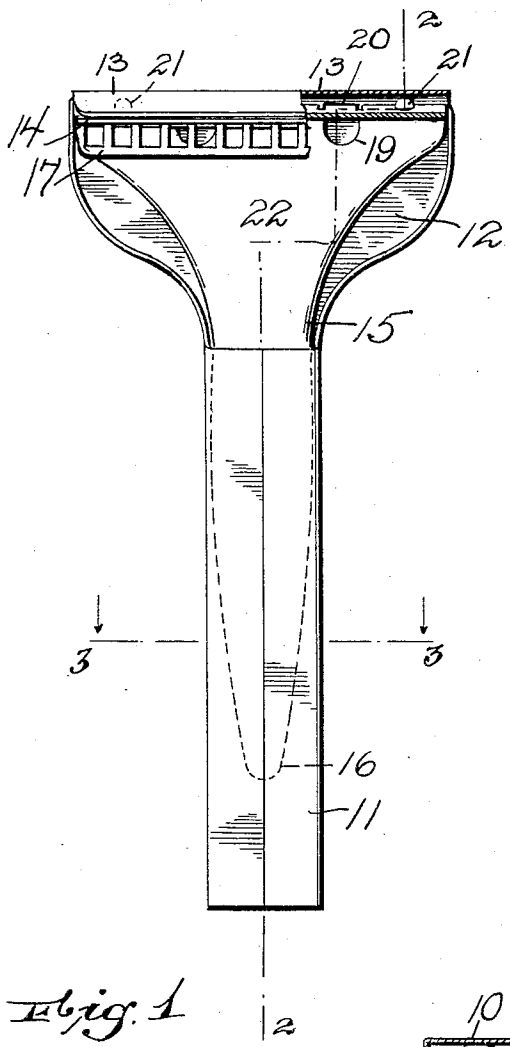


Fig. 1

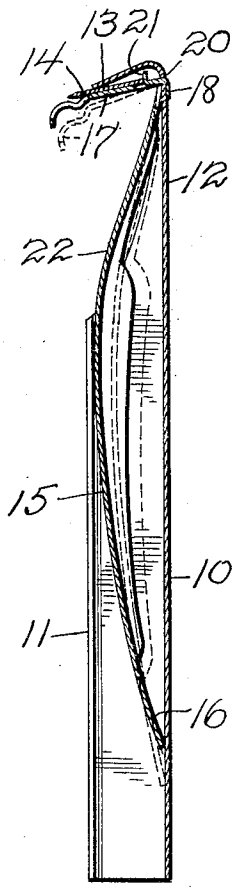


Fig. 2

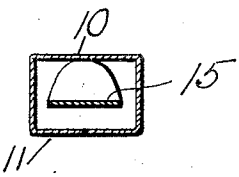


Fig. 3

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UNITED STATES PATENT OFFICE

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RAZOR

Application filed June 29, 1931. Serial No. 547,611.

This invention relates to an improved razor adapted for use with a blade which is inserted by hand. The razor is adapted for use as a safety razor and is illustrated as such in the accompanying drawing.

The object of the invention is to provide a razor which can be provided with a blade, or the blade can be dropped out, quickly. The razor is extremely simple in its construction and operation and can therefore be manufactured cheaply. The razor has an added advantage in that it can be made of two pieces of sheet metal and is of a generally flat form as in its preferred form it receives a single edge blade which can be of the narrow wafer type.

The invention is illustrated in the accompanying drawing in which Figure 1 is a face view of the improved razor, with part of the shaving head in section. Figure 2 is a section on line 2—2 in Figure 1. Figure 3 is a section on line 3—3 in Figure 1.

The razor is constructed to cause the shaving head to open when a spring plate is pressed. This spring plate is preferably projected by the handle and has a portion accessible for such manipulation.

The razor illustrated comprises a plate 10 which is folded around to form a tubular handle 11 and has an extension 12 and is folded over on the top to form the clamp plate 13 which is one of the elements that contributes to the shaving head in which the blade 14 is held.

The razor also comprises a second plate or sheet 15 which has a spring action away from the sheet 10. This is usually provided by bending the sheet 15 and as it is of spring material the sheet 15 contacts at its end 16 with the sheet 10 and at the other end contacts at the top near the juncture of clamp plate or top plate 13 and the extension 12.

The second sheet 15 is bent forwardly under the plate 13 and forms a guard 17 which supports the blade 14 and holds it firmly against the plate 13. The two members 10 and 15 may be secured together at the rear of the shaving head. I show the lips 18 which are struck up from the sheet 15 at 19 and are pressed down after passing through slits 20 in the extension 12 of the other member. To limit the rearward movement of the blade 14 I provide stops, preferably on the guard 17. These stops 21 are usually made by stamping them up from the metal of the guard.

It will be noted that the tubular part 11 of the handle is spaced below the shaving head to allow access to the bulged part of the spring member at 22.

In operating the razor the thumb of the hand in which the handle is held is pressed on the part 22 of the spring. This causes the spring to fulcrum at the rear of the shaving head as shown in dotted lines in Figure 2. The guard 17 is thus moved away from the clamp or top plate 13. The razor, held horizontally, with the back of the shaving head down, is thus open for a blade which is dropped into the shaving head. The blade is limited in its movement by the stops 21. The spring 15 is then released from pressure by the thumb and the razor is ready for use. When a blade is to be released the razor is held with the front of the shaving head down and then the spring 15 is pressed. The blade is then free to drop out or it can be expelled by subjecting the razor to a quick jerk.

When the blade is inserted if it is grasped at its two ends and then dropped down into the open guard the fingers will align the ends of the blade with the ends of the shaving head.

Various changes can be made in the shape or proportions of the parts without departing from the scope of my invention.

I claim:

1. A razor comprising a handle bent forwardly at the top to form one member of a blade clamp, and a spring metal member of substantially the same shape fitting into the handle and with a bent part to form the second member of the blade clamp, the handle and the spring metal member being joined together at the rear of the blade clamp, the spring member bearing on the handle with a tendency to close the blade clamp and ears struck up on the forwardly bent part of the spring member to form a blade stop, the handle protecting all but the top of the spring member against pressure.

2. A razor comprising a sheet of metal bent to form a tubular handle and a flat extension and bent over at the top to form a top plate, a second sheet of metal in the tubular handle and curved to contact at separated points with the first sheet bearing at one end on the inside of the handle and bearing at the other end on the extension at the juncture with the top plate, the second sheet being extended as a guard under the top plate to co-operate with said top plate to form a shaving head, the second sheet being formed from sheet metal, the resiliency of which is the sole force for holding the guard against the top plate.

3. A razor comprising a sheet of metal bent to form a stiff tubular handle having a flat extension and bent over at the top thereof to form a top plate, a second sheet made of spring metal curved to contact under a shoulder where the top plate joins the handle extension and extending to contact on the rear wall on the inside of the handle portion, said second sheet extending forwardly under the top plate to form a guard, the handle extending the major length of the razor for protection against accidental pressure on the spring metal while shaving.

4. A razor comprising a sheet of metal formed into a long tubular handle and a flat extension with a top plate bent forwardly at the top thereof and having spaced slits in the extension near the top plate, and a second sheet of metal formed of spring material fitting within the handle and contacting therewith at the bottom of the second sheet and contacting under the shoulder where the top plate joins the extension, said second sheet extending forwardly under the top plate to form a guard, the guard having upwardly bent projections near the back to form blade stops and the second sheet having integral lips passed through the slits in the extension whereby the members are permanently secured together, the second sheet being accessible for application of release pressure above the handle.

In testimony whereof he affixes his signature.

ARTHUR J. BRIGGS.