June 15, 1943. S. W. BOATWRIGHT 2,321,895

RAZOR

Filed Dec. 31, 1941

Fig. 1

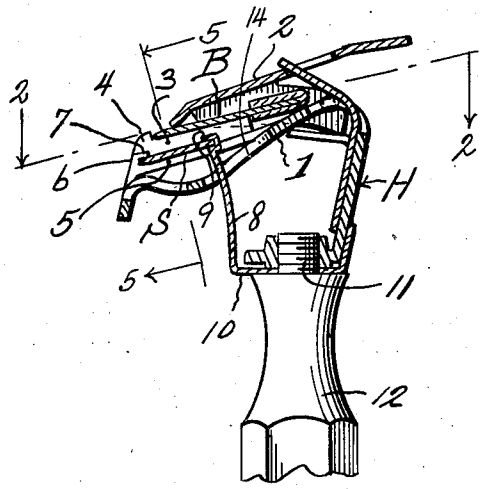


Fig. 3

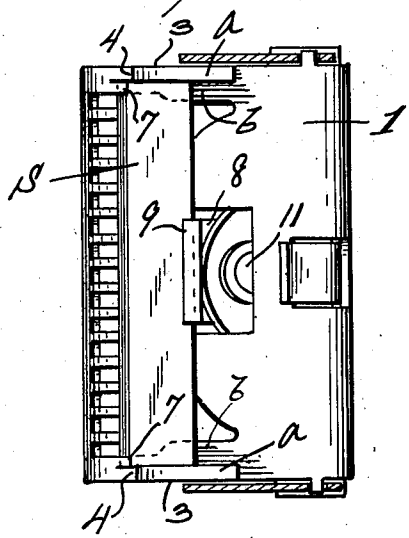


Fig. 2

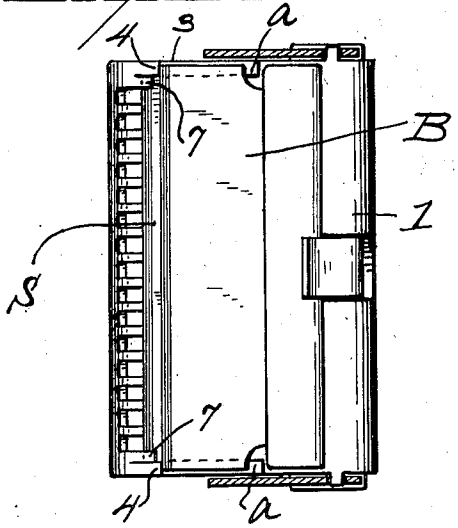


Fig. 4

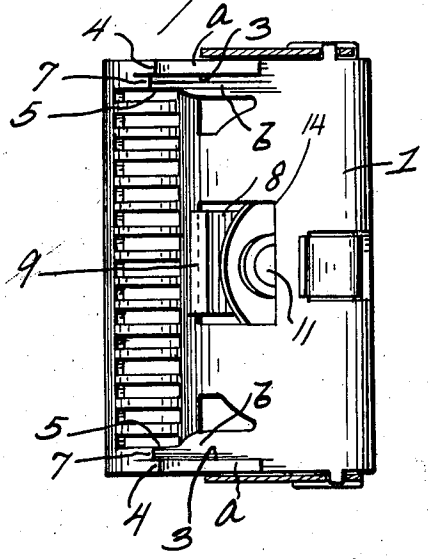
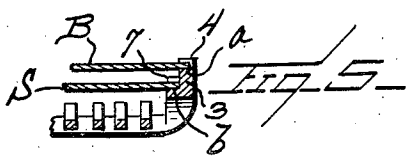


Fig. 5



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2,321,895

UNITED STATES PATENT OFFICE

2,321,895

RAZOR

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Application December 31, 1941, Serial No. 425,189

4 Claims. (Cl. 30—50)

This invention relates to razors, and has relation more particularly to a device of this kind of a multiple blade type, and it is an object of the invention to provide means whereby a supplemental blade may be effectively maintained in working position below or inwardly of the main blade.

It is also an object of the invention to provide a razor including a plurality of blades with means for maintaining the blades in such assembled relation to assure a quick and close shave in a relatively short period of time.

A still further object of the invention is to provide a razor of this kind wherein a plurality of blades are supported in working position in a manner to allow all of the blades to have shaving contact with the face at the same time.

The invention consists in the details of construction and in the combination and arrangement of the several parts of my improved razor whereby certain important advantages are attained, as will be hereinafter more fully set forth.

In order that my invention may be the better understood, I will now proceed to describe the same with reference to the accompanying drawing, wherein:

Figure 1 is a fragmentary view, partly in section and partly in elevation, illustrating a razor constructed in accordance with an embodiment of my invention;

Figure 2 is a sectional view taken substantially on the line 2—2 of Figure 1, looking in the direction of the arrows;

Figure 3 is a view similar to Figure 2, but with the main blade removed;

Figure 4 is also a view similar to Figure 2, but with all of the blades removed; and

Figure 5 is a fragmentary sectional view taken substantially on the line 5—5 of Figure 1, looking in the direction of the arrows.

As disclosed in the accompanying drawing, H denotes the head of the razor including a guard plate 1 of desired configuration and also including a tilting holding cover or member 2. These features are of a well-known construction and form no particular part of my invention. The plate 1, at its ends, is provided transversely thereof with the outstanding elongated flanges 3 extending partially thereacross, and each having its outer face *a* flat and relatively wide.

The main blade B is clamped to the faces *a* of the flanges 3 in a well-known manner by the tilting cover or member 2, and the forward or cutting edge of the applied blade B has contact in a conventional manner with the upstanding lugs 4 at the forward extremities of the flanges 3. The blade B is of a commercial type now on the market and which has its rear longitudinal edge reinforced or strengthened.

The plate 1 inwardly of and immediately adjacent to each of the flanges 3 is provided with a straight portion 5, the outer face *b* of which is flat and substantially parallel with the face *a* of the adjacent flange 3. It is to be particularly noted that the face *b* is spaced inwardly from the face *a*.

The straight portions 5 of the plate 1 at the forward ends thereof but in advance of the lugs 4 are provided with the outstanding lugs 6 which provide stops for the supplemental shaving blade S. Each of the lugs 6 is undercut or recessed from the rear to provide a notch 7 into which a forward end portion of the applied blade S is received and maintained in effective position.

The blade S is of a width considerably less than the width of the main blade B and said blade S is of a length to have its ends placed in direct contact with the faces *b*. The blade S is held in applied or working position by a spring arm 8 which contacts with the rear edge of the blade S at substantially its longitudinal center. This spring arm 8 is preferably of pronounced width and has its outer end portion forwardly directed, as at 9, to provide a lip to extend over the rear portion of the blade S in close contact therewith to further maintain the blade S in working position. This spring arm 8 also serves to constantly urge the blade S forwardly to maintain the same in proper interlocking engagement with the lugs 6.

As is particularly illustrated in Figure 1, the lugs 4 and 6 are so related to allow the cutting edge of the supplemental blade S to be projected in advance of the cutting edge of the main blade B a distance sufficient to have the cutting edges of both of the blades B and S in proper contact with the face during a shaving operation. The applied blades B and S are also spaced apart a distance sufficient to assure a close shave upon each stroke of the razor over the face, and also to further assure a quick shave.

The spring arm 8 may be held in desired position in any manner preferred, but as herein embodied the end portion of the spring arm 8 remote from the lip 9 is formed to provide a lateral extension 10 through which passes a threaded stud 11 at the end of a handle 12. The head H threads upon this stud 11 and said head coacts with the extension 10 of the arm 8 to effectively clamp the same to the adjacent end of the han-

dle 12. The front portion of the guard plate 1, substantially at its longitudinal center is provided with an opening 14, through which the outer or free end portion of the spring arm 8 extends. The opening 14 is of such dimensions to allow the spring arm 8 to be readily moved rearwardly a distance sufficient to permit application or removal of the blade S.

From the foregoing description it is thought to be obvious that a razor constructed in accordance with my invention is particularly well adapted for use by reason of the convenience and facility with which it may be assembled and operated.

I claim:

1. A safety razor comprising a handle, a head member mounted upon an extremity of the handle, a guard plate carried by the head, flanges at the opposite ends of said plate and extending transversely thereof, said plate inwardly of and immediately adjacent to the flanges being provided with straight portions, said straight portions being spaced inwardly from the outer faces of the flanges, the forward extremities of the flanges and the straight portions being provided with outstanding lugs, a main blade having its end portions engaged with the outer faces of the flanges, means for holding said main blade to said flanges, a supplemental blade having its end portions engaging the straight portions of the guard plate, a spring arm carried by the end portion of the handle adjacent to the head, said spring arm engaging the rear edge of the supplemental blade to urge the blade toward the lugs of the straight portions.

2. A safety razor comprising a handle, a head member mounted upon an extremity of the handle, a guard plate carried by the head, flanges at the opposite ends of said plate and extending transversely thereof, said plate inwardly of and immediately adjacent to the flanges being provided with straight portions, said straight portions being spaced inwardly from the outer faces of the flanges, the forward extremities of the flanges and the straight portions being provided with outstanding lugs, a main blade having its end portions engaged with the outer faces of the flanges, means for holding said main blade to said flanges, a supplemental blade having its end portions engaging the straight portions of the guard plate, a spring arm carried by the end portion of the handle adjacent to the head, said spring arm engaging the rear edge of the supplemental blade to urge the blade toward the lugs of the straight portions, said head providing means for holding the spring arm to the handle.

3. A safety razor comprising a handle, a head member mounted upon an extremity of the handle, a guard plate carried by the head, flanges at the opposite ends of said plate and extending transversely thereof, said plate inwardly of and immediately adjacent to the flanges being provided with straight portions, said straight portions being spaced inwardly from the outer faces of the flanges, the forward extremities of the flanges and the straight portions being provided with outstanding lugs, a main blade having its end portions engaged with the outer faces of the flanges, means for holding said main blade to said flanges, a supplemental blade having its end portions engaging the straight portions of the guard plate, a spring arm carried by the end portion of the handle adjacent to the head, said spring arm engaging the rear edge of the supplemental blade to urge, the blade toward the lugs of the straight portions, the guard plate being provided with an opening through which the spring arm freely passes.

4. A safety razor comprising a handle, a stud extending from one end of the handle, a head engaged with the stud, a guard plate carried by the head, flanges at the opposite ends of said plate and extending transversely thereof, said plate inwardly of and immediately adjacent to the flanges being provided with straight portions, said straight portions being spaced inwardly from the outer faces of the flanges, the forward extremities of the flanges and the straight portions being provided with outstanding lugs, a main blade having its end portions engaged with the outer faces of the flanges, means for holding said main blade to said flanges, a supplemental blade having its end portions engaging the straight portions of the guard plate, a spring arm having a laterally disposed extension at one end through which the stud of the handle extends, said extension being between the head and the adjacent end of the handle, said head holding the extension against removal from the stud, the spring arm being of a length to engage the rear edge of the supplemental blade to urge the supplemental blade toward the lugs of the straight portions.

STEVENS W. BOATWRIGHT.