United States Patent

[11] 3,597,841

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[45] Patented **Aug. 10, 1971**

[54] **SAFETY RAZOR**
4 Claims, 6 Drawing Figs.

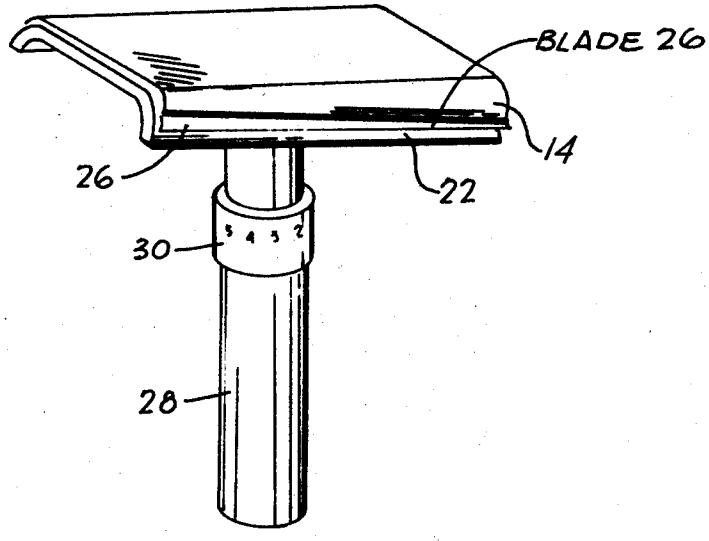
[52] **U.S. Cl.** **30/72,** 30/48
[51] **Int. Cl.** **B26b 21/18**
[50] **Field of Search** ..... 30/68—73, 74.1, 81, 83, 84, 48

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Primary Examiner—Othell M. Simpson

ABSTRACT: A safety razor in which top and bottom cooperating pressure members between which the razor blade is gripped have cooperating outwardly and downwardly extending lips extending between opposite ends. The bottom lip has a uniform radius of curvature. The top lip has a varying radius of curvature, and the top lip is tapered in its width from one end of the razor head to the other. The top lip is arcuate in cross section having different radius of curvature therealong, said radius being at a maximum value at the end of the razor top lip where the lip is narrowest, and having maximum radius of curvature at the opposite end of the razor head where the top lip is widest.



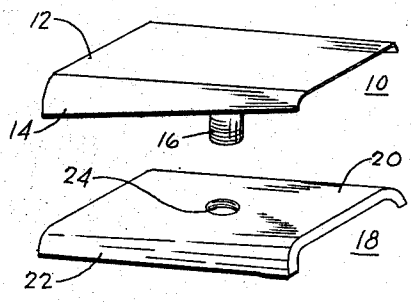


FIG. 1.

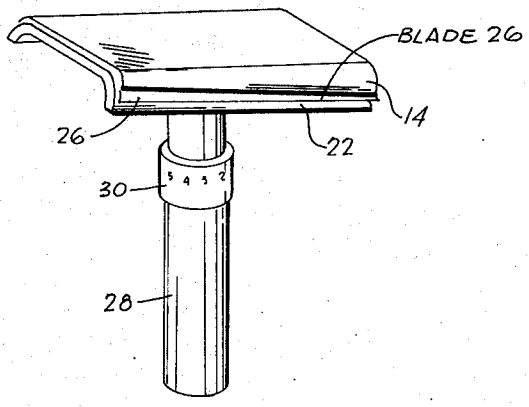


FIG. 3.

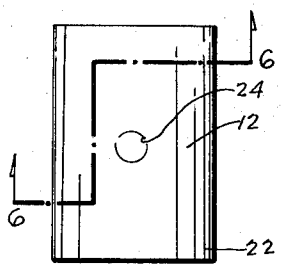


FIG. 2.

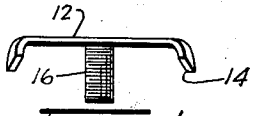


FIG. 4.

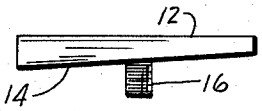


FIG. 5.

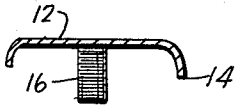


FIG. 6.

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SAFETY RAZOR

SUMMARY OF THE INVENTION

A safety razor wherein the top and bottom cooperating pressure members between which the razor blade is gripped are so constructed that the angle at which the blade edge is held as measured with respect to the horizontal has a minimum value adjacent one end of the members and increases linearly with increasing distance from the one end until it attains a maximum value adjacent the other end.

The bottom member has oppositely disposed outwardly and downwardly extending lips which extend between the two ends and has a uniform radius of curvature. The top member is similarly constructed except that the radius of curvature of the top member lip has a value adjacent said one end of the member and increases linearly with increasing distance until it attains a maximum value adjacent the other end.

With this structure, the blade is positioned as indicated, and a user can use different blade portions to shave different areas of the face and obtain maximum comfort accordingly.

BRIEF DESCRIPTION OF THE DRAWINGS

In the drawings:

FIG. 1 is an exploded view of some of the parts of my invention;

FIG. 2 is a top view of my razor;

FIG. 3 is a perspective view of my razor;

FIG. 4 is an end view of the top member used in my invention;

FIG. 5 is a side view of the member of FIG. 4; and

FIG. 6 is a sectional view of the top member taken along line 6–6 of FIG. 2.

DETAILED DESCRIPTION OF PREFERRED EMBODIMENTS

Referring now to FIGS. 1—6, a top pressure member 10 has a flat elongated horizontal rectangular central region 12 with oppositely disposed lips 14 extending outward and downward between opposite ends. Each lip has a radius of curvature which has a minimum value adjacent one end and which increases linearly with increasing distance from the one end until it attains a maximum value at the other end. A threaded shaft 16 extends vertically downward from the center of the bottom surface of region 12.

A bottom pressure member 18 has a flat elongated horizontal rectangular central section 20 with oppositely disposed lips 22 extending outward and downward between opposite ends. Each lip has the same uniform radius of curvature. The section 20 has a central hole 24.

In use a conventional safety razor double-edged blade 26 is disposed between members 10 and 18 with shaft 16 extending through a central hole in the blade and through aligned hole 24 into a bore at one end of elongated handle 28. By tightening the handle to any one of the different positions of torque indicated on dial 30, the pressure exerted by the members on the blade can be varied accordingly. The angle at which the blade is held as measured with respect to the horizontal, for any torque setting, is determined by and varies with the radius of curvature of the top member.

While I have described my invention with particular reference to the drawings, such is not to be considered as limiting its actual scope.

I claim:

1. In a safety razor:

a top member having a flat horizontal center section with at least one linear side, said at least one side having a lip extending outward and downward between opposite ends, said lip having an outer edge disposed at a distance from said linear side which increases from a minimum value adjacent one end to a maximum value adjacent the other end;

a bottom member having a like center section with at least one lip extending outward and downward beyond said top member lip outer edge between opposite ends and underlying said top member lip, said bottom member lip having a guard portion disposed parallel to said at least one linear side; and

means for gripping a razor blade between said top and bottom members.

2. A razor as set forth in claim 1 wherein the distance of said outer edge from said at least one linear side increases linearly with increasing distance from said one end of said at least one side.

3. A razor as set forth in claim 2 wherein said center section is rectangular and wherein said at least one linear side comprises two oppositely disposed sides of said center section each having a lip with similarly disposed outer edges.

4. A razor as set forth in claim 3 wherein said at least one bottom member lip comprises a lip underlying each of said top member lips and having similarly disposed guard portions.