

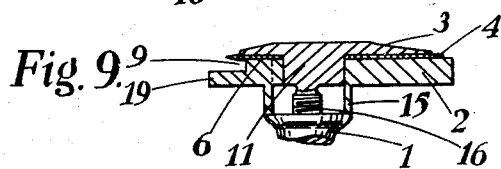
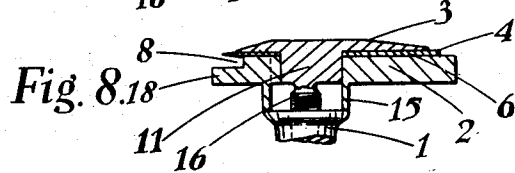
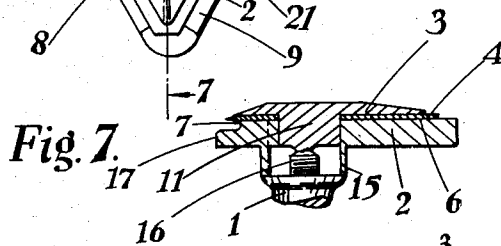
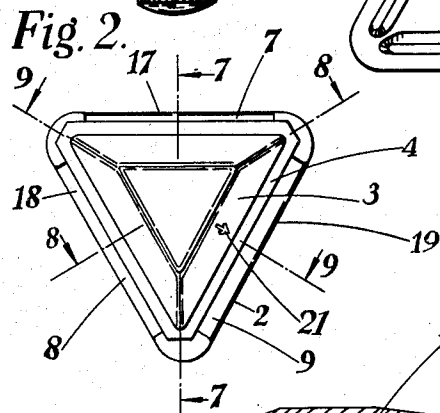
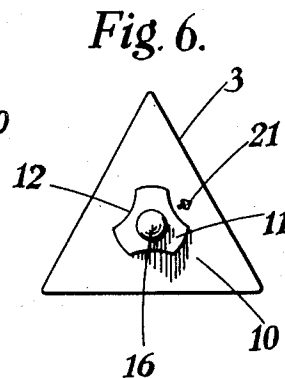
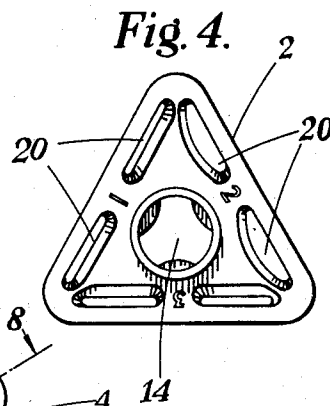
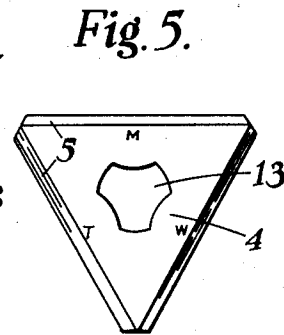
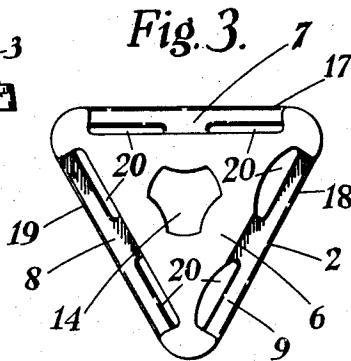
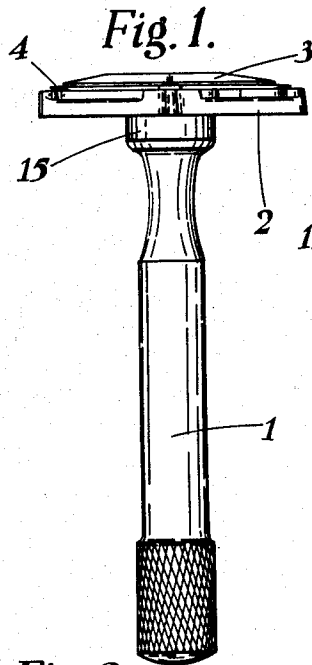
July 6, 1937.

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2,086,426

SAFETY RAZOR

Filed April 10, 1935



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2,086,426

SAFETY RAZOR

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Application April 10, 1935, Serial No. 15,709
In Great Britain April 18, 1934

8 Claims. (Cl. 30—70)

The present invention relates to razors of the safety type in which a thin flat blade is held between guard and cover plates and which have more than two and preferably three cutting edges which are simultaneously held in position for use.

More particularly the present invention relates to safety razors as hereinbefore defined having a substantially cylindrical boss or projection which is grooved or recessed associated either with the guard plate or with the cover plate for maintaining or holding the cutting edges of the blade in correct position for use and for facilitating attachment of a razor handle and clamping of the blade.

The chief object of the present invention is to provide an improved safety razor of the class described in which different degrees of cut are simultaneously available for use at the several cutting edges thereof.

With this object in view the present invention consists in a razor of the class described comprising a guard plate providing straight un-toothed edges which lie at different perpendicular distances from the longitudinal axis of said razor, marginal recesses of the same vertical depth extending inwardly from said edges, a cover plate and a blade having at least three cutting edges clamped between said guard and cover plates with its cutting edges simultaneously available for use, whereby different degrees of cut are provided at the several edges of the razor.

The guard plate may be made of metal or of any other suitable material; for example it may be moulded from a material such as that known under the registered trade-mark "Bakelite."

In order that the present invention may be more clearly understood and readily carried into effect reference may now be had to the accompanying drawing in which:—

Fig. 1 is an elevational view of a complete safety razor according to the present invention;

Fig. 2 is a plan view of the safety razor shown in Fig. 1;

Fig. 3 is a top plan view of the guard plate;

Fig. 4 is a bottom plan view of the guard plate;

Fig. 5 is a plan view of a blade for a razor according to the present invention;

Fig. 6 is a bottom plan view of the cover plate;

Fig. 7 is a cross sectional view on the line 7—7 of Fig. 2;

Fig. 8 is a cross sectional view on the line 8—8 of Fig. 2;

Fig. 9 is a cross sectional view on the line 9—9 of Fig. 2.

In Figs. 1–9 of the drawing the present invention is shown as embodied in a safety razor of triangular form comprising a holder constituted by the handle 1, the guard plate 2 having straight un-toothed edges and the cover plate 3, and a blade 4 clamped between the guard and cover plates 2 and 3 respectively.

The blade 4 which is relatively stiff and flat and is preferably provided with so-called hollow ground cutting edges 5 bears over most of its surface area upon a substantially flat surface 6 formed on the guard plate 2 but the cutting edges 5 themselves project over marginal portions 7, 8, and 9 respectively of the guard plate which are recessed to the same depth as shown more particularly in Figs. 7, 8, and 9. The cover plate 3 has a substantially flat under-surface 10 which bears upon the blade 4 and is provided with a substantially centrally located projection or boss 11. This boss which is of generally cylindrical form is provided with grooves or recesses 12 and co-operates with a correspondingly shaped hole 13 in the blade 4 and with a correspondingly shaped passage 14 in an extension 15 from one side of the guard plate 2. The boss 11 has a screw threaded portion 16 on to which the handle 1 may be screwed for the purpose of detachably clamping the parts together in the manner shown in Fig. 1, the handle having an annular flange which bears on the edge of the extension 15. The particular form of the boss 11, hole 13 and passage 14 described ensures that the edges 5 of the blade are held in correct position during use of the razor.

In accordance with the present invention the safety razor is constructed in such a manner that when it is conditioned for use different degrees of cut are simultaneously provided for at the several cutting edges. This result is obtained in the form of the invention illustrated in Figs. 1–9 by arranging for the straight edges 17, 18, and 19 of the recessed portions 7, 8, and 9 respectively of the guard plate 2 to lie at different perpendicular distances from the longitudinal axis of the razor as shown more particularly in Figs. 7, 8, and 9. In this way the cutting edges of the blade are located at different distances from the corresponding edges of the guard plate and the razor has to be held at different inclinations to the face according to which edge is in use thus varying the degree of cut obtainable at the different edges. To provide for the evacuation of soap and hair slots 20 are preferably located behind the edges

17, 18 and 19 and as shown in Fig. 4 the side walls of these slots may be tapered downwardly to facilitate such evacuation.

If desired the cover plate 3 may be provided on one or both of its surfaces with a marking or indicator 21—such as an arrow—whilst the edges of the guard plate 2 may be designated by being numbered 1, 2, 3, as shown in Fig. 4 or by being otherwise marked. Furthermore the cutting edges of the blade may be marked on one face with the markings "Monday", "Tuesday" and "Wednesday" respectively and on the other face with the markings "Thursday-Sunday", "Friday" and "Saturday" respectively. The effect of these markings is to enable a different cutting edge of the blade to be used on successive days with the same or a different edge of the guard plate according as to whether the same or a different degree of cut is desired.

A guard plate 2 as hereinbefore described may be cheaply and satisfactorily made by moulding from a suitable mouldable material such as that known under the registered trade mark "Bakelite", but it will be appreciated that metal or any other appropriate material may be used. The cover plate 3 and handle 1 may be made of any suitable material.

In a modified form of the invention the guard plate and the handle may be formed in one piece and the parts may be detachably clamped together by means of a spindle which projects through the handle and has a threaded end adapted to screw into the boss on the cover plate. The spindle may be rotated to effect clamping or unclamping of the parts by means of a disc having a milled edge formed integrally with or secured to the spindle.

What I claim is:—

1. A safety razor of the class described comprising a guard plate providing straight untoothed edges which lie at different perpendicular distances from the longitudinal axis of said razor, marginal recesses of the same vertical depth extending inwardly from said edges, a cover plate and a blade having at least three cutting edges clamped between said guard and cover plates with its cutting edges simultaneously available for use, whereby different degrees of cut are provided at the several edges of the razor.

2. A safety razor of the class described comprising a guard plate of triangular form providing three straight untoothed edges which lie at different perpendicular distances from the longitudinal axis of the razor, marginal recesses of the same vertical depth extending inwardly from said

edges, a cover plate of triangular form, a substantially cylindrical projection from one of said plates, recesses in said projection, a blade of triangular form providing three cutting edges, an aperture in said blade of substantially the same shape as the cross sectional shape of said projection for co-operation with said projection, and a handle for clamping said blade between said guard plate and said cover plate with its cutting edges simultaneously available for use, whereby different degrees of cut are provided at the respective edges of said razor.

3. A safety razor as claimed in claim 1 comprising at least one slot which extends completely through the guard plate in the recess behind each straight edge of the guard plate for the evacuation of soap.

4. A safety razor as claimed in claim 2 comprising at least one slot which extends completely through the guard plate in the recess behind each straight edge of the guard plate for the evacuation of soap.

5. A blade holder for a safety razor of the class described comprising a guard plate providing straight untoothed edges which lie at different perpendicular distances from the longitudinal axis of said holder, marginal recesses of the same vertical depth extending inwardly from each said edge, and a cover plate for clamping a blade having cutting edges corresponding in number to said edges of said guard plate against said guard plate for the purpose specified.

6. A blade holder for a safety razor of the class described comprising a guard plate of triangular form providing three straight untoothed edges which lie at different perpendicular distances from the longitudinal axis of the razor, marginal recesses of the same vertical depth extending inwardly from said edges, a cover plate of triangular form, a substantially cylindrical projection carried by one of said plates, recesses in said projection and a handle for clamping a blade having three cutting edges between said guard plate and said cover plate.

7. A blade holder as claimed in claim 5 comprising at least one slot which extends completely through the recessed part behind each straight edge of the guard plate for the evacuation of soap and hair.

8. A blade holder as claimed in claim 6 comprising at least one slot which extends completely through the recessed part behind each straight edge of the guard plate for the evacuation of soap and hair.

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