

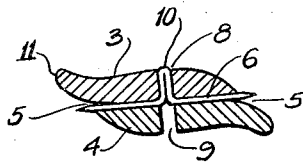
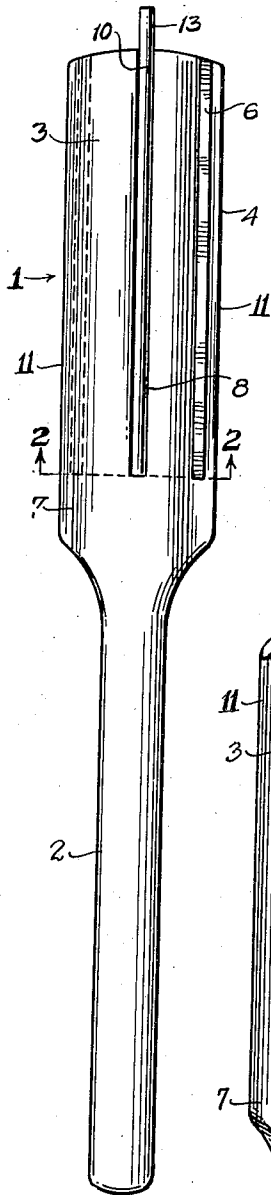
Feb. 12, 1935.

E. T. FRY  
SAFETY RAZOR

1,991,275

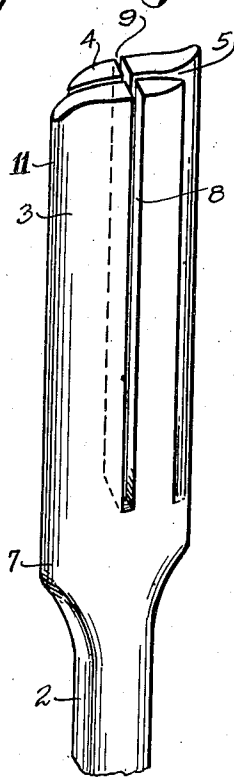
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*Fig. 1.*

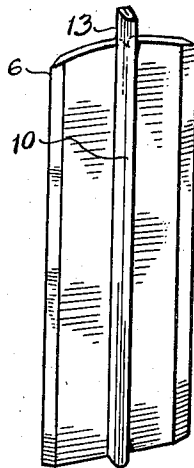


*Fig. 2.*

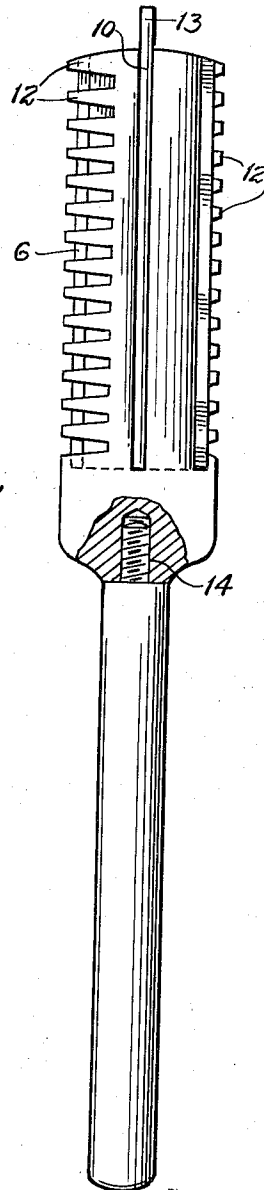
*Fig. 3.*



*Fig. 4.*



*Fig. 5.*



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# UNITED STATES PATENT OFFICE

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## SAFETY RAZOR

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5 Claims. (Cl. 30—12)

This invention relates to safety razors of the two-edge wafer blade type and it has for its object the construction of a razor having the general shape of and the same manner of manipulation as the old fashioned straight razor, while at the same time possessing attributes affecting its celerity of operation and quickness and convenience in assembling and disassembling which make it distinctly novel and useful with reference to safety razors as heretofore constructed.

One of the more specific objects of the invention is the provision of a razor having a frame including flat faces between which the blade is slidably and snugly inserted with some friction, and the faces being preferably somewhat springy so that when the frame is pressed against the skin in the act of shaving, the friction is increased and the blade held firmly against displacement.

Another object of the invention is to provide the frame with a longitudinal slot cutting through both faces in a plane intersecting that of the blade, and to form the blade with a longitudinal tongue or rib selectively interdigitatable with the slot in either face of the frame so that the blade can be readily reversed.

Still another object of the invention is to provide the frame with through slots in intersecting planes whereby it is easy to wash the frame merely by holding the slots under a jet of water.

Other objects of the invention will appear as the following description of a preferred and practical embodiment thereof proceeds.

In the drawing which accompanies and forms a part of the following specification and throughout the several figures of which the same characters of reference have been employed to designate identical parts:

Figure 1 is a plan view of a razor embodying the features of the invention;

Figure 2 is a cross section taken along the line 2—2 of Figure 1;

Figure 3 is a perspective view of the frame;

Figure 4 is a perspective view of the blade; and

Figure 5 is a slightly modified form of the invention in which a toothed guard replaces the plain guard shown in Figure 1, the handle being also detachable from the blade holding portion of the frame.

Referring now in detail to the several figures and first adverting to that form of the invention shown in the first four figures, the numeral 1 represents a frame having the handle portion 2. Figure 2 shows that the frame is divided into a pair of flat face members 3 and 4 by means of

a slot 5 extending widthwise and which makes a snug fit with the blade 6, which is slidably inserted into said slot. The face members 3 and 4 emanate from a base portion 7 constituting part of the handle. The frame together with the handle may be made of any suitable material such as metal, urea condensation product, celluloid, phenolic resin or the like, and it is preferred that the face members 3 and 4 be slightly yielding or resilient so that when the razor is laid against the skin in the act of shaving, the face members will be pressed together against the blade holding it securely against displacement.

The face members 3 and 4 are provided with longitudinal slots 8 and 9 preferably arranged in a plane which intersects that of the blade 6. The blade is formed with a tongue or rib 10 which fits slidably in either of the slots 8 or 9, permitting the blade to be reversed bringing new sides of the cutting edges into cutting relation to the beard.

The sides of the face members 3 and 4 are inclined so as to hold the blade at a proper angle while shaving.

The edges of the frame may be rectilinear and unindented as indicated at 11 in Figures 1 and 2, or optionally, they may be formed with guard teeth 12 as shown in Figure 5. The rib 10 of the blade 6 may project for a slight distance beyond the frame 1 as at 13, serving as a handle for slipping the blade in or out, or the rib 10 may be made slightly higher than the outer side of the face members 3 or 4 so that the blade may be slipped out by mere frictional contact of the thumb against the projecting apex of said rib. If desired, the blade could be made with a rib on both sides fitting both the slots 8 and 9 simultaneously.

In cleansing the razor, it is merely necessary to withdraw the blade and hold the frame under a jet of water so as to bring the widthwise and depthwise slots successively into alinement with said jet. No screwing or unscrewing of parts is necessary in the assembling or disassembling of this razor. It may be desired however to make the blade holding portion of the frame of different material from the handle, in which case or for other reasons, the two parts may be separately made and screwed together as shown at 14 in Figure 5. In order to withdraw or replace a blade, it is not necessary however to unscrew the handle from the rest of the frame.

While I have in the above disclosure described what I believe to be a preferred and practical embodiment of the invention, it is to be under-

stood that the details of construction as shown are merely exemplary and are not to be construed as limiting the scope of the invention as claimed.

What I claim is:

- 5 1. Safety razor of the wafer blade type comprising a frame including an elongated handle portion, and a blade holding portion being an extension from said handle portion having relatively flat face members spaced apart substantially the thickness of a blade and of a width to permit the projection of the blade edges, said face members being formed with a longitudinal slot opening into the space between said members and adapted selectively to receive the upstanding rib of a blade in either of reversed positions of said blade.
- 10 2. Safety razor as claimed in claim 1, the sides of said members beyond which the edges of said blade project being inclined at a proper shaving angle.
- 15 3. In combination, a safety razor of the wafer blade type comprising a frame and a blade, said frame including an elongated handle portion and a blade holding portion being an extension from said handle portion having relatively flat face members spaced apart substantially the thickness of said blade and of a width to permit the projection of the blade edges, said face mem-

bers being provided with longitudinal slots opening into the space between said face members, said blade being provided with a longitudinal rib adapted to be received selectively in the slot in either of said face members whereby the blade may be reversed.

4. In combination a frame comprising a handle extended at one end into relatively flat members spaced apart the thickness of a razor blade of the wafer type and offset laterally so that one edge of each projects beyond the adjacent edge of the other, one of said flat members having a through slot, extending longitudinally to communicate with the space between the members and positioned medially of said two members, whereby said member is divided into a wide and narrow part of differing flexing strength, and a wafer blade having a longitudinally extending rib adapted to slide in said slot, said blade of sufficient width to project on each side from between said flat members.

5. Claim 4 with the side edges of the flat members on each side rounded into a substantially smooth curve, the curve of the edges on one side being oppositely disposed to that of the edges on the other side.

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