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J. M. MELLON

2,374,612

SAFETY RAZOR

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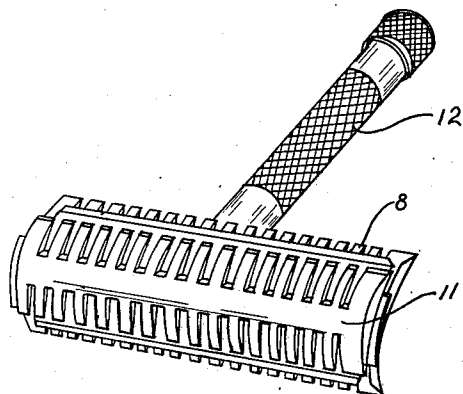


Fig 1

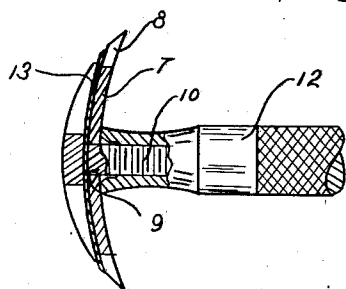
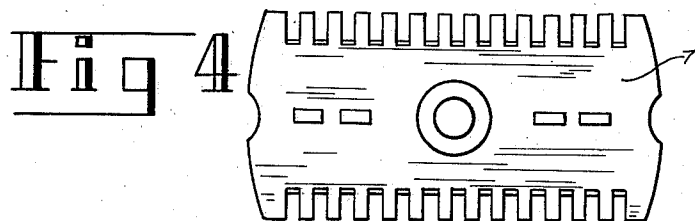
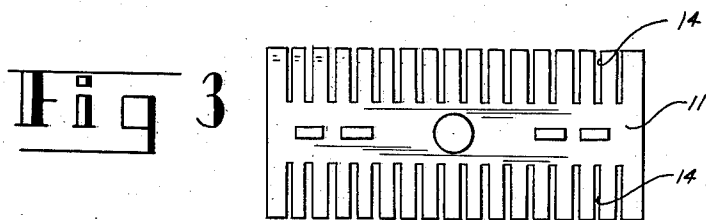


Fig 2



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# UNITED STATES PATENT OFFICE

2,374,612

## SAFETY RAZOR

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Application January 29, 1944, Serial No. 520,333

3 Claims. (Cl. 30-70)

My invention relates to a new and useful improvement in a safety razor, and has for its object the provision of a safety razor so constructed and arranged that when dipped in water or placed in a running stream of water, it will retain a quantity of the water and release the same when the cutting edge of the blade is placed against the face.

It is another object of the invention to provide a safety razor so constructed and arranged that it may moisten the lather immediately preceding the cutting blade as it is drawn over the face.

Another object of the invention is the provision of a safety razor having a back plate provided at its opposite edges with transversely directed longitudinally spaced apart slots of such a width as to provide water receiving and retaining spaces so that as the razor is drawn over the face in the shaving operation, the water retained in the slots will flow onto the face and serve moistening purposes.

Other objects will appear hereinafter.

Forming a part of this specification is a drawing in which,

Fig. 1 is a perspective view of a razor embodying the invention;

Fig. 2 is a transverse sectional view of the razor with a part broken away;

Fig. 3 is a plan view of the back plate used with the invention;

Fig. 4 is a plan view of the guard plate used with the invention.

In the drawing I have illustrated the invention applied to a razor comprising the guard plate 7 having teeth 8 formed on the opposite edges and provided with a central opening 9 through which a threaded stud 10, projecting forwardly from a back plate 11, is projected. The stud 10 is adapted to thread into one end of the handle 12. By threading the handle 12 onto the stem 10, the blade 13 will be clamped between the guard plate 7 and the back plate 11. The back plate 11 is provided with a plurality of transversely extending longitudinally spaced apart slots 14. These slots are of such a width as to provide water receiving and retaining spaces. Experience has shown that in a back plate which is 1.575 inches long, the slots 14 cannot exceed .025 inch in width and the space between these slots should be approximately .060 inch. It will be noted that the slots 14 termi-

nate outwardly from the longitudinally medial line so that the slots on opposite edges of the back plate 11 cannot communicate at their inner ends. Experience has shown that the dimensions referred to are critical and that if the slots are made wider than indicated, they will not serve as water receiving and retaining members.

In use, after the face has been lathered, when the razor is dipped into water or placed in a stream of water, a considerable quantity of water will be retained in the slots 14. When the razor is drawn across the face, the water in the slots 14 will be released so as to flow onto the face and moisten the lather immediately in front of the blade 13. This will result in a considerably more efficient shaving operation, allowing the blade to operate more efficiently in its cutting effect and providing a smoother shave, while, at the same time, a more pleasant operation is effected as the pulling on the hairs is reduced to a minimum.

What I claim as new is:

1. A safety razor of the class described comprising a back plate; a guard plate for clamping a blade against said back plate, said back plate having transversely directed longitudinally spaced apart slots extending inwardly from its opposite longitudinal edges, said slots not exceeding in width .025 inch to provide water receiving and retaining slots.

2. A safety razor of the class described comprising a back plate; a guard plate for clamping a blade against said back plate, said back plate having transversely directed longitudinally spaced apart slots extending inwardly from its opposite longitudinal edges, said slots not exceeding in width .025 inch to provide water receiving and retaining slots, said slots being spaced apart approximately .060 inch.

3. A safety razor of the class described comprising a back plate; a guard plate for clamping a blade against said back plate, said back plate having transversely directed longitudinally spaced apart slots extending inwardly from its opposite longitudinal edges, said slots not exceeding in width .025 inch to provide water receiving and retaining slots, said slots terminating at their inner ends outwardly from the longitudinal medial line of said back plate.

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