Dec. 4, 1928. 1,694,337

J. OBERHEIM

SAFETY RAZOR

Filed Dec. 24, 1927

Fig. 1.

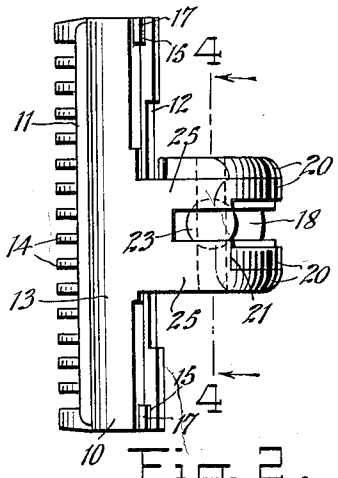


Fig. 3.

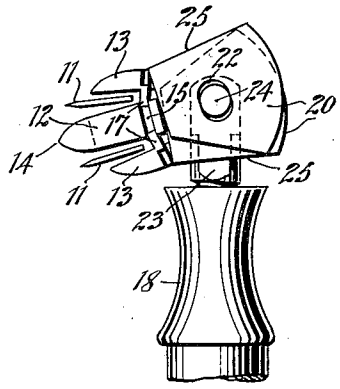


Fig. 2.

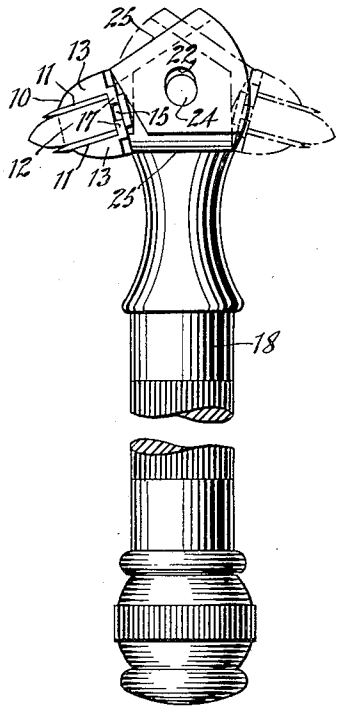


Fig. 4.

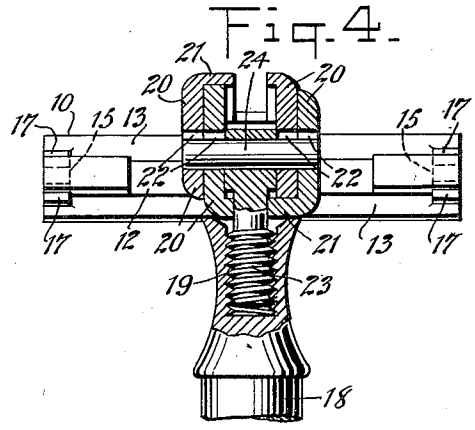


Fig. 5.

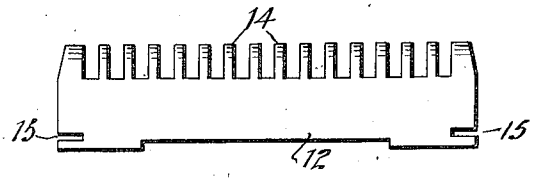
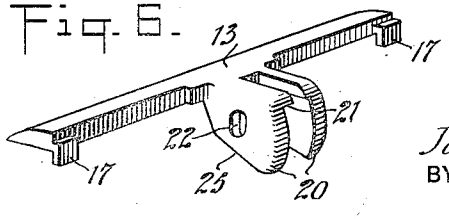


Fig. 6.



WITNESSES

Jos. L. Lamia

Chris Feinke.

INVENTOR

Jacob Oberheim

BY Munn & Co.

ATTORNEY

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UNITED STATES PATENT OFFICE.

JACOB OBERHEIM, OF NEW YORK, N. Y.

SAFETY RAZOR.

Application filed December 24, 1927. Serial No. 242,373.

This invention relates to a safety razor for one or more razor blades.

The principal object of the present invention is a safety razor which may be produced at a comparatively low cost, due to novel features of construction, resulting in a saving of materials, particularly as regards the razor blades which may be extremely narrow.

The nature of the invention and its distinguishing features and advantages will appear when the following specification is read in connection with the accompanying drawing, in which—

Figure 1 is a top view of a razor embodying the features of the present invention on an enlarged scale.

Fig. 2 is a side elevation, the handle having a portion thereof broken away, and the blade holder being shown in one position in full lines, and in its other position in dot and dash lines.

Fig. 3 is a side elevation with the parts of the holder in separated relation.

Fig. 4 is a sectional view taken on the line 4—4 of Fig. 1, and looking in the direction indicated by the arrows.

Fig. 5 is an elevation of the guard member.

Fig. 6 is a perspective view of one of the clamping members of the holder.

Referring now more particularly to the several views of the drawing it will be apparent that, the safety razor of the present invention will include a razor blade holder 10 which is designed to hold one or more extremely narrow razor blades, indicated at 11. The holder 10 consists of a central guard member 12, and identical clamping members 13 which coact with the central guard member 12 to hold the blade or blades 11 in place. The guard member 12 has the usual teeth 14 along one of its lateral edges, and near the other lateral edge in each of the ends is a notch 15. Each of the clamping members 13 is beveled as at 16 along one of its lateral edges, and on the other lateral edge at each end the member 13 has a lug or projection 17. Each clamping member is equal in length to the length of the guard member 12, and the lugs or projections 17 respectively at the opposite ends of the clamping members 13 are receivable in the notches 15 in the guard member 12. The lugs or projections 17 prevent relative endwise movement of the guard member 12 with respect to the clamping members and also limit the insertion of the blades 11 between the clamping members and the guard member 12.

The safety razor also includes a handle 18 which may be of any preferred pattern and which has a threaded bore 19 in one end thereof.

Coacting means is provided between the holder and the handle so as to mount the holder for pivotal movement with respect to the handle, and which also serves for securing the holder 10 against movement. The said coacting means consists of spaced lugs 20 extending laterally from the edge of each of the clamping members 13 having the projections 17. One of the lugs 20 has an angularly disposed portion 21. Each of the lugs 20 has a slot-shaped hole 22. An element 23 has one end thereof threaded for threading engagement with the threads of the bore 19 and the opposite end thereof carries an arbor 24 extending transversely with respect to the element. The opposite ends of the arbor 24 respectively are disposed in the slot-shaped holes 22 respectively of the lugs 20 on the clamping members 13 when the latter are brought together. By screwing the handle 18 onto the threaded end of the element 23, the related end portion of the handle will be brought to bear against a lug 20 of each of the clamping members 13, and as a consequence the arbor 24 will be drawn toward the handle 18 and will exert pressure on the end walls of all of the slot-shaped holes 22, setting up a clamping effect. In this way the blades 11 are clamped in place in the holder 10 for carrying out shaving operations. It is to be understood that one blade 11 at a time will be used according to the position of the holder with respect to the handle. The opposite sides of each lug 20 has a flat edge designated 25, by virtue of which the end of the handle 18 may be brought into such a relationship with respect to the lugs 20 as to hold the holder 10 in the proper angularly disposed position. By loosening the handle 18, the holder may be swung from one position at one side of the longitudinal axis of the handle to the opposite side thereof. By again tightening up on the handle the holder 10 may be secured against movement with the blades securely clamped in place.

To remove the blades for the purpose of replacing them it is only necessary to unscrew the handle 18 which allows relative pivotal movement of the clamping members

13. Due to the fact that the holes 22 in the lugs 20 are slot-shaped, it is possible to obtain the pivotal movement in spite of the lugs or projections 17 being disposed in the notches 15. It will also be apparent that by providing the portions 21 on certain of the lugs 20, pressure will be equally distributed when clamping action is set up.

I claim:

1. In a safety razor, blade clamping members, a pair of spaced lugs on each clamping member, each of said lugs having a slot shaped hole, a pivot extending transversely of the lugs on both clamping members in said slot shaped holes respectively in the lugs to allow the clamping members to have pivotal movement, and also movement toward and away from each other, and means acting on the pivot and the lugs to maintain the clamping members in clamping relationship.

2. In a safety razor, blade clamping members, a pair of spaced lugs on each clamping member, each of said lugs having a slot shaped hole, a pivot extending transversely of the lugs on both clamping members in said slot shaped holes respectively in the lugs to allow the clamping members to have pivotal movement, and also movement toward and away from each other, a screw threaded element connected with the pivot at one end, and a handle adapted for threading engagement with said element and to act on said lugs to maintain the clamping members in clamping relationship.

3. In a safety razor, a blade holder comprising a central guard member and a pair of clamping members which coact with the guard member to hold two blades therebetween, the clamping members having lugs on the back edges thereof to limit the insertion of the blades between the members, said lugs respectively entering notches in the guard member to prevent relative sliding movement of the guard member with respect to the clamping members.

Signed at New York in the county of New York and State of New York this 21st day of December A. D. 1927.

JACOB OBERHEIM.