June 18, 1929. T. J. BARRETT ET AL 1,718,188

RAZOR

Filed June 15, 1926

Fig. 1

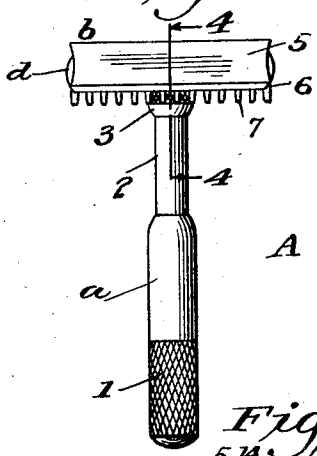


Fig. 2

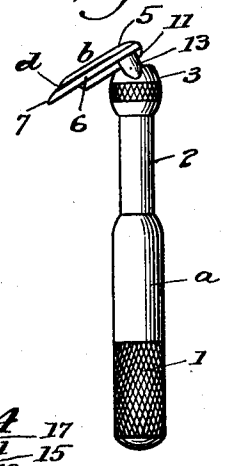


Fig. 3

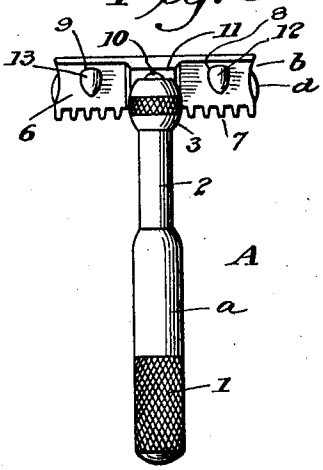


Fig. 4

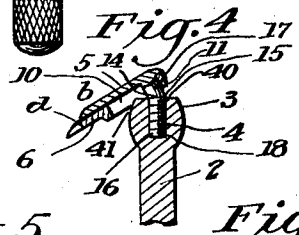


Fig. 8

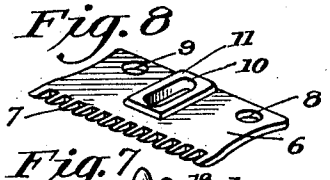


Fig. 5

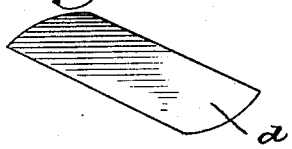


Fig. 6

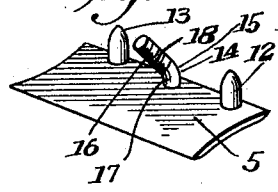


Fig. 7

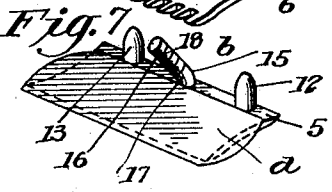


Fig. 9

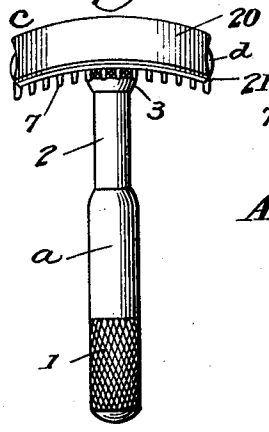


Fig. 10

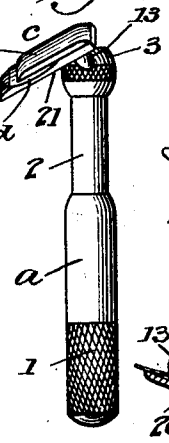


Fig. 11

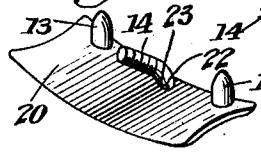


Fig. 13

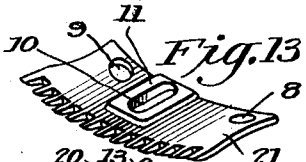


Fig. 12

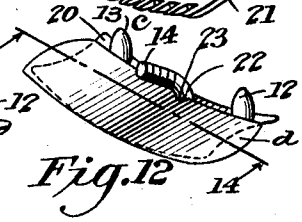
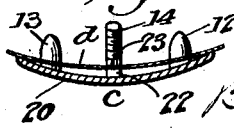


Fig. 14



INVENTOR:
Thomas J. Barrett,
Thomas L. Croom,
BY Blakeslee & Brown,
ATTORNEYS.

Patented June 18, 1929. 1,718,188

UNITED STATES PATENT OFFICE.

THOMAS J. BARRETT AND THOMAS L. CROOM, OF LOS ANGELES, CALIFORNIA; SAID CROOM ASSIGNOR TO WESLEY M. BARRETT, OF LOS ANGELES, CALIFORNIA.

RAZOR.

Application filed June 15, 1926. Serial No. 116,082.

This invention relates to razors, and in particular to that form of razor known as a safety type. The invention has for an object the provision of a razor wherein the blade is held at correct shaving angle without the necessity of the operator attempting to hold the blade at such angle.

Another object is the provision of a razor which will permit the blade to be readily placed within the razor holder or ejected therefrom without entirely disconnecting the blade holder parts.

Another object is the provision of a razor which is sanitary, in that there are no parts which will allow moisture or germs to collect, and to this end the razor is so formed that it may be readily cleaned within a minimum of time. Another object is the provision of a razor which will hold a blade properly to obtain best shaving results.

Another object is the provision of a razor which will shave either a substantially flat surface or a curved surface and using the same blade.

Another object is the provision of a razor wherein the handle member thereof is so arranged as to securely lock the razor blade and razor holder together.

Other objects include inexpensiveness of construction, adaptability for general use and service, and general superiority.

With the above and other objects in view, the invention consists in the novel and useful provision, formation, construction, association and relative arrangement of parts, members and features, all as shown in certain embodiments in the drawing described generally and more particularly pointed out in claims.

In the drawing:

Figure 1 is a front elevation of the razor;

Figure 2 is a side elevation of the showing of Figure 1;

Figure 3 is a rear elevation of the showing of Figure 1;

Figure 4 is a cross section on the line 4—4 of Fig. 1;

Figure 5 is a perspective view of a razor blade which may be used in the present invention;

Figure 6 is a perspective view of one of the blade holders;

Figure 7 is a view similar to Figure 6 showing the blade of Figure 5 combined with the blade holder of Figure 6;

Figure 8 is a perspective view of one of the blade holders known as the guard-piece;

Figure 9 is a front elevation of the razor with a convex-concave blade holder;

Figure 10 is a side elevation of the showing of Figure 9;

Figure 11 is a perspective view of one part of the blade holder;

Figure 12 is a perspective view showing the blade of Figure 5 combined with the blade holder of Figure 11;

Figure 13 is a perspective view of the second member of the blade holder known as the guard-piece utilized in the form of the invention shown in Figures 9 and 10; and,

Figure 14 is a cross sectional view on the line 14—14 of Figure 12.

Corresponding parts in all the figures are designated by the same reference characters.

Referring with particularity to the drawing, the improved razor is designed as an entirety by A, and such razor includes as elements a handle *a*, blade holders *b* and *c*, and a blade *d*, all of which elements may be used in practicing one embodiment of the invention.

The handle *a* includes a knurled hand-engaging portion 1 which is reduced as to diameter at 2, the reduced portion being provided with a head 3 which is provided with a curved periphery or ball-shaped part. This head portion is axially bored and screw-threaded as indicated at 4. The said razor handle will act to hold one or the other of the blade holders *b* or *c*. The blade holder *b* includes two parts 5 and 6, the said parts cooperating to clamp the blade *d* therebetween. The part 6 has a greater transverse width than the part 5, and such part is commonly known as the guard-piece, being provided with a comb edge 7. The part 6 is likewise provided with two spaced bores 8 and 9, and with a central slot 10, there being a flanged member or raised portion 11 upon said member 6 and bounding the slot 10. This member 11 acts as a bearing member for the head 3 of the handle when the blade holder members 5 and 6 are cooperating to hold a blade. The part 5 of the blade holder is provided with two spaced guide studs 12 and 13 superimposed upon a surface of said blade holder, and likewise with a stud

14 which is bent transversely as indicated at 15 so as to provide two portions 16 and 17 angularly related with the portion 16 screw-threaded at 18. In general practice the blade *d* is sharpened along one longitudinal edge only, and when it is desired to place the blade between the blade holders 5 and 6 it is only necessary to lay the blade, say, on the member 5, as indicated in Figure 7 so that the unsharpened edge of said blade will abut against the guide studs 12 and 13, whereupon the member 6 may be laid upon the blade, the said guide studs being passed through the openings 8 and 9 and the threaded stud 15 through the slot 10, after which the handle 1 is screw-threaded to the threaded stud 15, as indicated in Figures 1 to 4 inclusive. The handle plus the stud 15 acts as a locking means for locking the blade holders together. The head 3 by having a curved periphery or a substantially ball-shaped periphery will be in part received within the confines of the slot 10 and engage a portion of the side walls of the raised part 11 on the guard-piece 6.

It is evident upon inspection of the drawing that due to the form of the screw-threaded stud 14 the razor holder is held at an angle to the handle 1, and this angle is assumed to be the one best adapted for shaving purposes, so that it is only necessary to press the blade holder lightly against the surface of the part to be shaved, said blade holder being held at a proper angle so that the blade *d* is most effective. Furthermore, it will be readily appreciated that neither guard-piece has any obstruction or openings which are difficult to clean, and which are likely to form possible breeding places for germs. As a matter of fact, by slightly unscrewing the handle the blade can drop from between the blade holders and by holding the blade holder under hot water followed by shaking the blade holder, it is properly cleansed without the necessity of extensive wiping, such as now required by safety razors wherein all the parts must be separated or that type of safety razor in which the blade holders are hingedly connected. However, our safety razor does not stop at a single feature, that is, by providing a blade holder adapted for shaving flat surfaces, but is so constructed that surfaces difficult of access, such as under the arm-pits, at the chin, under the nose, etc., may be as easily shaved as a substantially flat surface, such as a side of the cheek. The blade holder *c* includes two members 20 and 21, the member 21 being of the convex concave type, the convex surface being adapted to have the blade bear thereon. This member 21 is in all details the same as the member 6, with the exception of the longitudinal curvature given the same. The same holds true for the holder 20 which is of the convex-concave type, and in all details similar to the holder 5, save in one particular, that is, the threaded stud adapted to be engaged with the handle 1 is formed with a transverse notch 22. The blade *d* is slightly flexed when placed upon the concave surface of the member 20, the unsharpened edge of such blade having a portion thereof received within the confines of the notch 22 with other portions of the same edge bearing against the studs 12 and 13. The wall 23 bounding the notch 22 will maintain the said blade slightly flexed, as indicated in Figs. 12 and 14. The guard 21 is then placed over the blade when positioned as in Fig. 12, so that the studs 12, 13 and 14 are passed through the openings 8, 9 and 10 of the member 21, whereupon the handle may be secured to the threaded stud 15, as before. Thus, the blade will be flexed to correspond to the curvature of the blade holders, all as indicated in Figs. 9 and 10. As before stated, places difficult of access with the ordinary flat blade may be readily shaved when the blade is so flexed. The present razor will then be distributed with blade holders of the type *b* and *c* adapted to have a common handle member 1, and a pack of blades of the form *d*, and it will be readily appreciated that the razor just described is universal in its adaptability.

From the foregoing description it will be seen that we have presented in the present safety razor, in addition to a universal type of razor, one wherein the head of the handle has a two-point engagement with the blade holder, in that the handle has screw-threaded engagement with the stud 13, while a second portion, namely, the curved surface of the head 3 of said handle is in engagement with the bearing surface or flanged part 11 bounding the slot 10. Furthermore, this contact zone is slightly spaced from the zone of engagement between the head and the said stud 15, as indicated in Figure 4 at 40 and 41. As a result we provide a razor in which the blade holder and the handle are securely locked together, a feature of importance, as it prevents a turning of the blade holder relative to the handle when the razor is in use, and which oftentimes results in serious cuts.

It is obvious that various changes and modifications may be made in practicing the invention, in departure from the particular showing of the drawing, without departing from the true spirit of the invention.

Having thus disclosed our invention, we claim and desire to secure by Letters Patent:

1. Improvements in safety razors, including a handle, a blade holder carried by said handle, said blade holder comprising two separable members, one of said members being provided with a threaded stud, said handle being formed to receive said threaded stud to hold the blade holder to said handle, said threaded stud being formed with a notch portion, and whereby when the blade is received between said blade holders a portion of said blade is received within said notch.

2. Improvements in safety razors, including a blade holder comprising two separable members, one of said members being provided at its rear edge with two spaced guide studs, and a bent screw-threaded stud, the other of said blade holders being formed with two spaced openings adapted to permit the passage of the guide studs therethrough, and with an elongated slot to permit the bent stud to pass therethrough, there being a raised bearing surface member surrounding said elongated slot.

In testimony whereof, we have signed our names to this specification.

THOMAS J. BARRETT.
THOMAS L. CROOM.