Jan. 5, 1954 E. VAN KOUGHNET 2,664,625

SAFETY RAZOR

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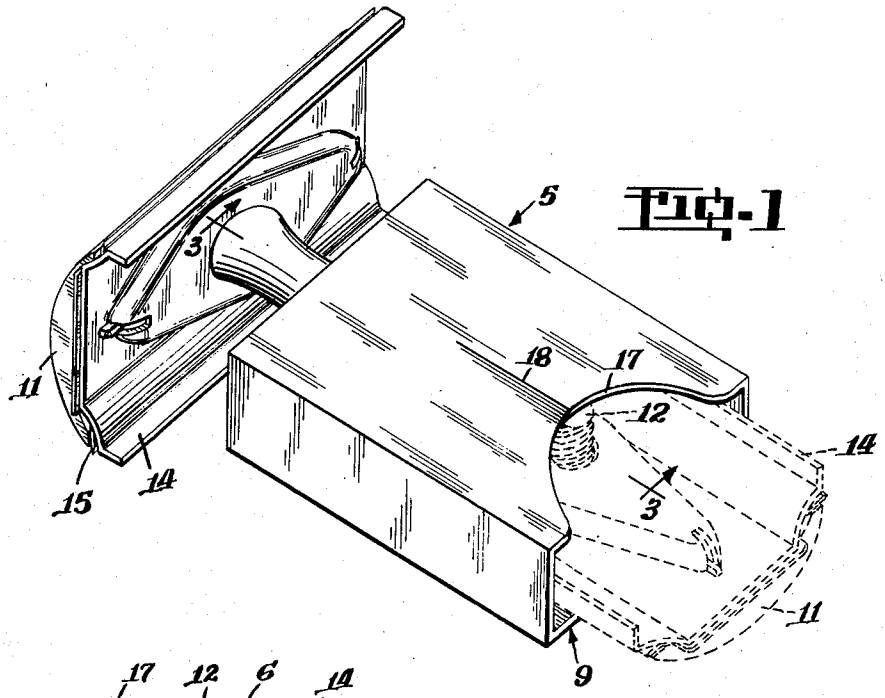


Fig. 1

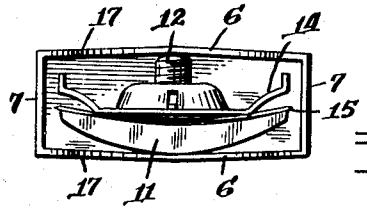


Fig. 2

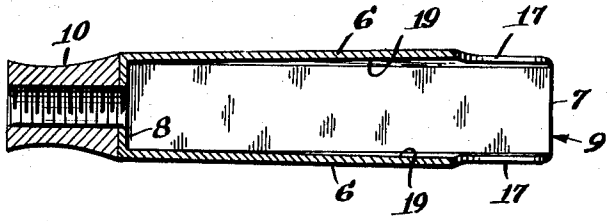


Fig. 3

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SAFETY RAZOR

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2 Claims. (Cl. 30—47)

1

This invention relates to improvements in safety razors and has for its particular object to provide a safety razor with a handle member in the form of a carrying case, to one end of which the head of a razor may be secured in assembled relation or may be inserted in the casing through an open end and gripped between two opposing walls in retaining engagement.

A particular feature of this invention is in the provision of a dual purpose casing which is adapted to serve as a handle for the assembled razor as well as a container for a dismantled head in which the head is gripped by opposing walls of the container without the assistance of additional gripping, closure or retaining members.

Another feature is in the provision of a compact, portable razor kit which is simple in construction and inexpensive to manufacture.

Still another feature is in the provision of a simple and effective means for centering the head within the casing to prevent contact of a blade with the walls of the casing.

Proceeding now to a more detailed description, reference will be had to the accompanying drawings, in which—

Fig. 1 is a perspective view of a razor embodying my invention.

Fig. 2 is an end view of a casing shown in Fig. 1 in which the head of the razor has been inserted.

Fig. 3 is a sectional view of the casing taken along the lines 3—3 of Fig. 1.

Referring more particularly to the drawings, 5 designates a handle member in the form of a hollow rectangular casing including top and bottom walls 6, side walls 7, a closed end wall 8 and open at the other end, as indicated at 9. End wall 8 is provided with a projecting threaded socket member 10. Casing 5 may be made of any flexible sheet metal, plastic or other suitable material of a thinness and flexibility that inward pressure on the side walls 7 will flex the top and bottom walls 6 outwardly to increase the distance between them.

A conventional razor head, comprising a clamping plate 11 provided with a threaded stud 12 and a guard 14 for clamping a blade 15 therebetween, is adapted to be assembled with the casing by screw threaded engagement of the stud with socket 10 on the closed end of the casing. When dismantled the razor head is stored in the casing by insertion through the open end 9.

The casing is internally dimensioned so that the distance between the side walls 7 is slightly greater than the maximum width of the head and the distance between the top and bottom walls 6

2

is less than the distance from the free end of the razor head stud 12 to the remote side of the clamping plate 11 so that, when the head is received in the casing, it is retained by contacting portions of the stud and clamping plate being gripped between the top and bottom walls 6.

The top and bottom walls 6 are cut out, as indicated at 17, to allow the head to be gripped for withdrawal from the casing. These top and bottom walls may also be slightly pre-bulged by the provision of a crease 18. The crease need only extend inwardly from the open end of the casing for a short distance so that the bulge will diminish toward the closed end, as shown at 19 in Fig. 3. The crease 18 will serve as a centering guide for inserting the head so as to space the side edges of the head from the side walls 7. This not only protects the edges of a blade but also permits compression of the side walls 7 to flex the top and bottom walls 6 for effecting an increased outward bulging of the top and bottom walls to facilitate removal of the head from the casing.

The threading of socket member 10 may extend through the end wall 8, as shown in Fig. 3, to permit escape of water from that end of the casing.

I claim:

1. A safety razor comprising a handle member in the form of a hollow rectangular casing closed at one end and open at the other end and provided with a threaded socket projecting outwardly from the closed end, said casing being made of sheet material of such thinness and flexibility that inward pressure on the side walls of the casing is effective to bulge the top and bottom walls of the casing outwardly from each other to increase the distance between said top and bottom walls, and a razor head embodying a clamping plate and a guard for clamping a razor blade therebetween, said clamping plate being provided with a threaded stud which, in the assembled position of the clamping plate and guard, passes outwardly through an opening in the latter for screw-threaded engagement with the threaded socket carried by the closed end of the casing, said clamping plate and stud being dimensioned so that the distance from the free end of the stud to the remote side of the clamping plate is greater than the distance between the opposing surfaces of the top and bottom walls of the casing when said walls are in their normal positions so that when the assembled clamping plate and guard of the razor head are forced into the casing, the top and bottom walls of the casing are bulged outwardly by contacting portions, of the

stud and clamping plate of the head and are thereby caused to exert gripping pressure on these head portions to securely retain the head in the casing, said gripping pressure being releasable or reducible by applying inward pressure to the side walls of the casing to effect a further outward bulging of the top and bottom walls, and said top and bottom walls of the casing being creased to provide a central longitudinally extending guide groove in the inner surfaces thereof for centering the head in spaced relation to the side walls of said casing.

2. A safety razor comprising a handle member in the form of a hollow rectangular casing closed at one end and open at the other end and provided with a threaded socket projecting outwardly from the closed end, said casing being made of sheet material of such thinness and flexibility that inward pressure on the side walls of the casing is effective to bulge the top and bottom walls of the casing outwardly from each other to increase the distance between said top and bottom walls, and a razor head embodying a clamping plate and a guard for clamping a razor blade therebetween, said clamping plate being provided with a threaded stud which, in the assembled position of the clamping plate and guard, passes outwardly through an opening in the latter for screw-threaded engagement with the threaded socket carried by the closed end of the casing, said clamping plate and stud being dimensioned so that the distance from the free end of the stud to the remote side of the clamping plate is greater than the distance between the opposing surfaces of the top and bottom walls of the casing when said walls are in their normal positions so that when the assembled clamping plate and guard of the razor head are forced into the casing, the top and bottom walls of the casing are bulged outwardly by contacting portions of the stud and clamping plate of the head and are thereby caused to exert gripping pressure on these head portions to securely retain the head in the casing, said gripping pressure being releasable or reducible by applying inward pressure to the side walls of the casing to effect a further outward bulging of the top and bottom walls, and recessed portions in the top and bottom walls of said casing adjacent the open end thereof to permit manipulation of the head when in the casing for its removal.

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