July 22, 1952 J. DE SWART 2,603,860

SAFETY RAZOR

Filed May 9, 1949

Fig. 1.

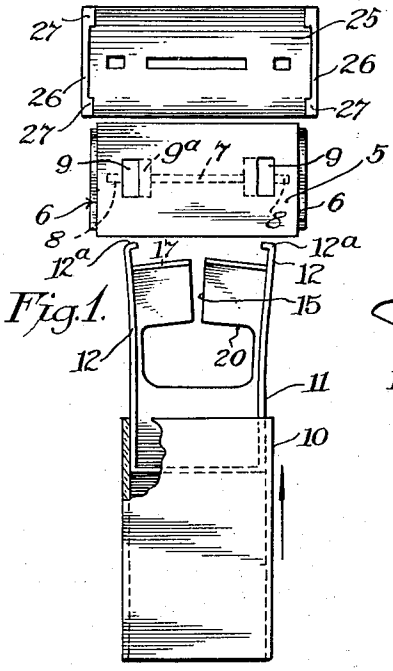


Fig. 2.

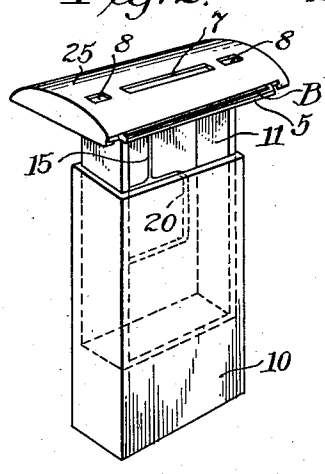


Fig. 3.

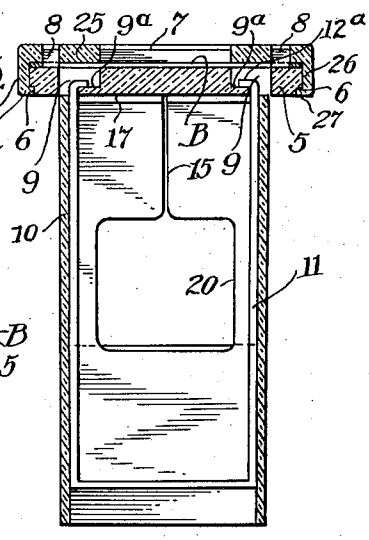


Fig. 4.

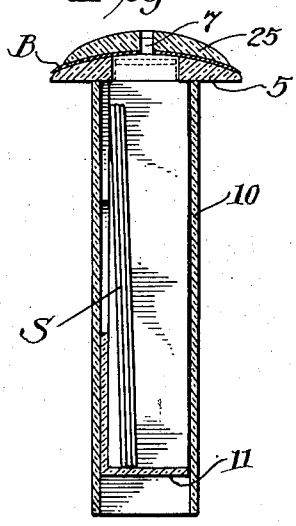


Fig. 5.

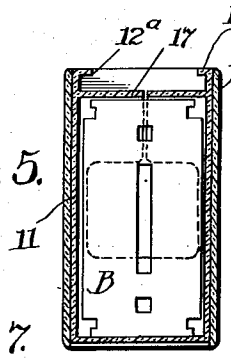


Fig. 6.

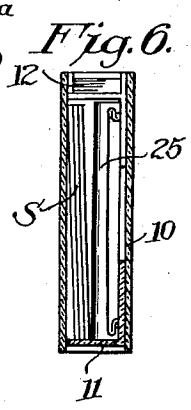
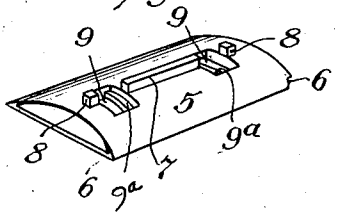


Fig. 7.



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UNITED STATES PATENT OFFICE

2,603,860

SAFETY RAZOR

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Application May 9, 1949, Serial No. 92,181

2 Claims. (Cl. 30—47)

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This invention has to do with improvements in safety razors.

It is among the objects of the invention to provide an improved safety razor wherein the handle element forms a box-like structure which houses the shaving head and blades when not in use.

In my United States Letters Patent No. 2,347,596, issued April 25, 1944, I show a safety razor wherein the handle is box-like and is adapted to completely house the shaving head and extra blades when not in use. My present invention embodies important improvements in the razor shown in my said patent. That is, it is a more particular object of the present invention to provide a safety razor of this type wherein a part of the handle is in the form of a drawer which slidably fits into an open-ended box, constituting the outer part of the handle and wherein the drawer is so constructed and pre-stressed as to facilitate attachment to and detachment from the head, as well as to provide a firm attachment thereto.

Still further and subordinate objects and advantages will appear hereinafter.

For the purpose of explaining how my invention may be carried into practice, I shall now describe it in one of its presently preferred embodiments for which purpose I shall refer to the accompanying drawings, wherein:

Fig. 1 shows a side elevation of a handle element and bottom views of the guard and clamp plates, disassembled;

Fig. 2 is a perspective view showing the parts of Fig. 1 assembled;

Fig. 3 is an enlarged vertical medial section;

Fig. 4 is an enlarged medial transverse section;

Figs. 5 and 6 are sectional views showing the guard, clamping plate and spare blades housed within the telescoped handle; and

Fig. 7 is a perspective of the guard plate.

Referring to the drawings, I show a guard plate 5, forming a part of the shaving head, having transverse slots 6 in the bottom edge of each end for the purpose to be described, a central rib 7, and a pair of lugs 8, said rib and lugs projecting upwardly from the top of the guard plate whereby to pass through the central longitudinal slot usually provided in the conventional safety razor blade B. Between each end of the rib and the adjacent lug 8, I provide a slot 9 of inverted L-shape, opening through the guard plate, said slot providing a pair of oppositely disposed upwardly facing shoulders 9a.

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The handle generally is comprised of two telescopic members 10, 11; member 10 being box-like and open at its top end and member 11 being drawer-like and being slidable through the open end of member 10. The handle member 11 has side wall extensions 12 presenting inwardly disposed, opposed flanges 12a and has its back wall longitudinally split at 15.

The drawer-like member 11 is made of resilient materials, such as plastic, and is formed or pre-stressed so that its side walls tend to diverge or spread apart as best shown in Fig. 1.

To mount the handle on the guard, the outer ends of the side wall extensions 12 are inserted longitudinally in the respective slots 9 through the bottom of the guard, and as the outer handle element 10 is slid upwardly on the inner element 11, the side walls of the inner element are thereby flexed inwardly towards each other, thus engaging the respective flanges 12a over the shoulders 9a, the upper split end wall 17 of the inner member 11 bearing against the under surface of the guard plate. So long as the handle members are in those relative positions, the handle is firmly secured to the guard. A hole 20 through the back wall of inner member 11, which the slit 15 intersects, tends to permit the side walls to flex apart to a greater extent when not confined by the outer handle member 10.

Next in the assembly, a blade B is mounted atop the guard plate with the rib 7 and lugs 8 projecting through the central longitudinal slot in the razor blade and the blade clamping plate 25 is then applied.

Clamping plate 25 has depending end flanges 26 presenting inwardly disposed ears 27 at the respective corners. The flanges and ears are resilient and thus engage over the respective end portions of the guard, the ears 27 fitting into the respective slots 6 in the bottom edges of the guard to clamp the blade against the guard.

As will be apparent, when the member 10 is moved downwardly on member 11, the extensions 12 flex outwardly as shown in Fig. 1, freeing the flanges 12a from the shoulders 9a, permitting separation of the member 11 from the guard.

The telescopic, box-like handle provides a convenient storage space for spare blades S and also provides a storage space for the guard and clamping plate when the device is disassembled, as best shown in Figs. 5 and 6.

While, in the foregoing, I have resorted to considerable detail of structure and association of parts in describing a particular example of my invention, I wish it to be understood that I have done so merely to make my invention understood

and that I do not limit my invention to such details. On the contrary, my invention is only to be limited as appears in the appended claims.

I claim:

1. A safety razor comprising a shaving head having a guard plate, said guard plate having a pair of longitudinally spaced slots therethrough each bounded along its top inner edge by an upwardly facing countersunk shoulder, an open-ended box-like handle member and a drawer-like inner handle member slidably mounted in the outer handle member, the inner handle member having a pair of resilient opposed outer end extensions inserted in said respective slots and engaging said respective shoulders, said extensions being pre-stressed to spring out of engagement with said shoulders but being normally held in engagement therewith by said outer handle member.

2. A safety razor comprising a shaving head having a guard plate, an open-ended box-like outer handle member, a drawer-like inner handle member slidably fitting in said outer handle member and having back, outer end, inner end and side walls, said back wall having a longitudinal split extending transversely through the said outer end wall, and said side walls having resilient end extensions projecting outwardly beyond said outer end wall and terminating in opposed angular end portions, said end portions being held in engagement with the guard plate by the outer cover member and being stressed to disengage from the guard plate when the inner handle member is slid outwardly of the outer handle member.

JAN DE SWART.

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The following references are of record in the file of this patent:

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