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W. WALLENTHIN

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SAFETY RAZOR AND CONTAINER THEREFOR

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Fig. 1.

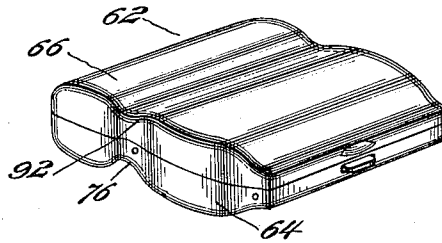


Fig. 4.

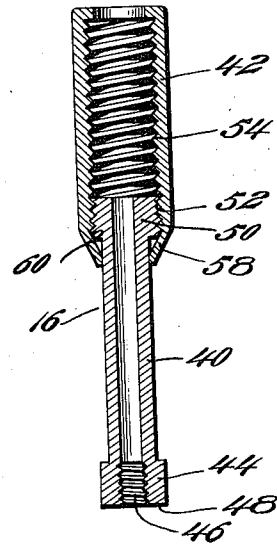


Fig. 2.

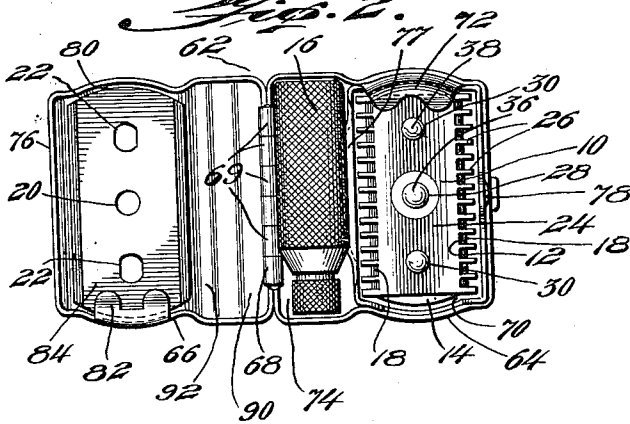


Fig. 5.

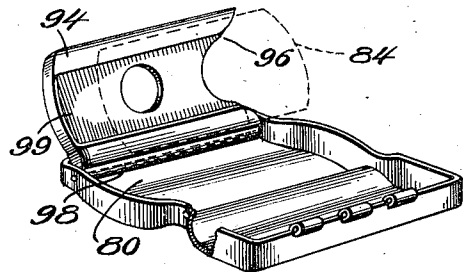
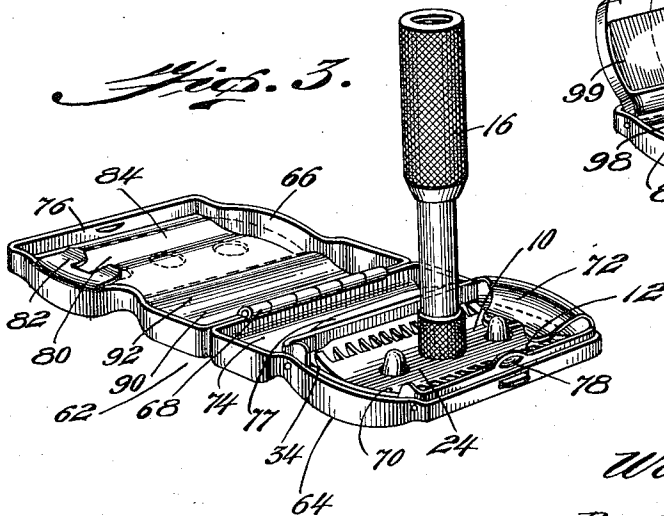


Fig. 3.



Inventor
Wälfred Wälfenthin,
By Thomas A. Jewell
Attorney

UNITED STATES PATENT OFFICE

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SAFETY RAZOR AND CONTAINER
THEREFOR

Walfrid Wallenthin, Attleboro, Mass.

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8 Claims. (Cl. 30-85)

My invention relates to improvements in safety razors and containers therefor.

An object of my invention is to provide an improved type of safety razor and container therefor, which may be readily disassembled, packed in a container and carried around in the vest pocket. In order to attain this result I preferably provide a novel type of extensible handle member for the flat safety razor and I preferably construct my improved container with a handle holding compartment and flat razor compartment and so shape the container that it may compactly contain these disassembled elements of the safety razor and a plurality of spare razor blades therein in a neat and efficient manner at the same time making the device readily capable of being carried in the pocket.

A further object of my invention is to provide a novel type of extensible handle for safety razors, which may be telescopically compressed to a packing position and automatically extended when it is desired to use by mere operation of screwing the handle on the usual attaching lug on the guard means of the safety razor to provide a handle of the desired length for shaving therewith.

While I have shown in the drawing my invention applied to the type of safety razor having a plurality of aligned guard members compressing to a transversely concaved position a flexible safety razor blade and my invention is particularly designed to be used with such types of safety razors, it is obvious that it may be employed with any desired type of safety razor having a blade having a cutting edge and guard means preferably for each side of said blade.

A further feature of an improved embodiment of my invention is that I preferably construct the container out of resilient pressed material to move when in closed position to a position compactly resiliently retaining the safety razor, the handle and blades therein and adapted to move when opening to lift the handle out of its respective compartment to a readily accessible position for screwing on the safety razor base.

A further feature of my improved construction is that the handle may be screwed onto the guard member or safety razor base while the same is still lying in its respective compartment and when the handle member is thoroughly screwed on and extended the entire safety razor may be simply lifted out of its compartment in assembled form ready for use.

These and such other objects of my invention as may hereinafter appear will be best understood from a description of embodiments thereof such

as are shown in the accompanying drawing applied to a flexible blade type of safety razor.

In the drawing, Fig. 1 is a perspective view of my improved safety razor container in closed position.

Fig. 2 is a plan view thereof in open position showing the safety razor handle, spare safety razor blades and flat safety razor in their respective compartments.

Fig. 3 is a perspective view generally similar to Fig. 2 with the handle member removed from its compartment, screwed onto its respective lug on the guard means of the safety razor and screwed to an extended position for use ready for removal from the container.

Fig. 4 is a sectional view of my improved handle member in extended position.

Fig. 5 is a perspective view of an alternative form of cover member which may be employed with my invention.

In the drawing, wherein like characters of reference indicate like parts throughout, 10 generally indicates a standard type of safety razor. Said safety razor is provided with the usual guard means 12, safety razor blade 14 mounted thereon and the usual handle member 16 threadedly mounted on suitable lug means projecting upwardly from said guard member. While I have shown a threaded lug projecting upwardly from said guard member adapted to be screwed in a threaded hole in the lower end of the handle member it is obvious that the handle member may have a threaded lug depending therefrom coacting with a threaded hole in the guard member without departing from the spirit of my invention, such being the ready and well known equivalent thereof.

While I have shown my invention applied to a standard well known type of safety razor having a lower guard member and an upper guard member, both enclosing a flexible razor blade and adapted when the handle is attached to the upstanding lug on the lower guard member to compress the safety razor blade 14 to a transversely concaved cutting position between said guard members, it is obvious that insofar as the features of my improved handle and container are concerned that any standard type of safety razor may be employed. In my preferred embodiment, however, I have shown my invention applied to the type of flexible safety razor heretofore referred to, which includes the flexible safety razor blade having the cutting edges 18 on each side thereof, a central lug hole 20 and two guide holes 22 on each side thereof longitudinally aligned

with said central lug hole 20. The guard means 12 includes a transversely concaved upper guard member 24, preferably provided with the laterally projecting teeth 26 and having the central lug hole 28 therein and the guide holes 30 longitudinally aligned therewith as in the flexible safety razor blade. The lower guard member 34 is also preferably transversely concaved and is provided with the externally threaded centrally upwardly projecting handle attaching lug 36 projecting upwardly through the aligned lug holes 20 and 28 in the razor blade and upper guard member respectively and the guide lugs 38 projecting upwardly on each side of said handle attaching lugs through the aligned guide holes 22 and 30 respectively in said razor blade and upper guard member. If desired, however, as hitherto explained any suitable type of guard means 12 may be employed adapted to hold the safety razor blade 14 having the cutting edge 18 thereon and provided with threaded means for detachable securement with threaded means on the razor blade handle.

As stated hitherto, I provide a novel type of extensible handle 16 so that the relatively movable lower handle member 40 and the preferably telescoping upper handle member 42 may be telescopically threadedly arranged relative to each other to move to an extended position for use in shaving and to a shortened position for use in packing in the container. The lower handle member 40 is provided with suitable threaded means for attachment to the threaded means on the guard means of the flat safety razor and in my preferred embodiment is provided with the lower end 44 internally threaded as at 46 to receive the threads of said handle attaching lug 36. Said lower handle member is adapted on threading thereon to have the surface 48 of the lower end thereof abut the upper surface of said upper guard member 24 and compress it downwardly against said lower guard member 34 to bend said flexible razor blade 14 to a transversely concaved cutting position. Said lower handle member 40 is also provided with an enlarged upper end 50 externally threaded as at 52. The upper handle member 42 is preferably hollow and is internally threaded as at 54 with threads of cooperating pitch with those on the upper end of the lower handle member to receive said threaded upper end 50 of said lower handle member. The lower end 58 of said upper handle member is preferably conically downwardly tapered to the periphery of the main portion of said lower handle member 40. It is thus apparent that both the lower handle member 40 and upper handle member 42 may be readily made on a screw machine and after the threads 52 and 54 have been cut respectively on the respective portions of said respective handle members that the lower end 58 of said upper handle member may be inwardly bent for this purpose. The cooperating threads 52 and 54 of said lower handle member and upper handle member respectively are preferably of reverse pitch to that of said cooperating threads in said lower handle member and the handle attaching lug respectively and said threads 52 and 54 are preferably of relatively fast pitch so that on screwing thereof the upper handle member 42 may rapidly telescopically rise on said lower handle member 40, whereby on initial threaded engagement of said handle 16 with said handle attaching lug 36, said handle may be screwed onto said lug until the lower end 48 of said handle abuts said upper guard member 24

and on further rotation thereof, said upper handle member 42 may rise rapidly on said lower handle member 40 until the lower portion 60 of the upper end 50 of said lower handle member becomes tightly bound within the tapered lower end 58 of said upper handle member. Where a flexible safety razor is employed it is obvious that on further rotation of said handle member it will rotate further on said handle attaching lug to compress the respective guard members 24 and 34 respectively to bend said flexible razor blade 14 to a transversely concaved cutting position, it being apparent that where other types of safety razors are employed that this concaving effect will not be produced.

As stated hitherto I provide in combination with my novel type of safety razor, an improved preferably fashioned pocket container 62 for said disassembled razor, preferably constructed of pressed resilient material, such as brass, steel, celluloid, etc. and comprising a fashioned base member 64 and a fashioned cover member 66 pivotally mounted thereon by means of the hinge 68. The base member 64 is shaped to form a front flat safety razor base holding compartment 70 having an inwardly projecting shelf 72 on one end thereof adapted to overlie said flat safety razor, a rear handle holding compartment 74 and a partition 76 pressed inwardly therein separating said compartments 70 and 74 and preferably provided with a supplemental wall 77 preferably integral with said shelf 72 for gripping the razor handle between the side walls of said compartment. The cover member 66 has the rear end thereof pivotally mounted on the rear end of said base member by the hinge 68 and is provided with means on the front end thereof to cooperate with latch means 78 on the front end of said base member to lock said cover to said base member, in the embodiment shown said latch means 78 comprising a lug adapted to bind against the resilient wall of said upper cover member. Said upper cover member is provided with a front compartment 80 for spare razor blades, which is provided with a shelf 82 projecting inwardly on the opposite end thereof from said razor base shelf 72 adapted to overlie the spare razor blades 84 and retain them in position within their compartment 80. Said cover member is also provided with a rear safety razor handle compartment 90 and a partition 92 preferably pressed inwardly therein dividing said front compartment 80 from said rear compartment 90, whereby when in closed position said partitions 76 and 92 will closely bind said handle 16 between the side walls of its respective cooperating compartments 74 and 90 in the base and cover members respectively and said shelf 72 overlying said safety razor 12 may abut the spare razor blades 84 in the opposite compartment to retain them compactly within their compartment 80 and said shelf 82 on the opposite end of said spare razor blade compartment may abut said safety razor guard to compactly retain it in its compartment and when said cover 66 is open, the side walls of the lower handle compartment 74 may be bent outwardly by said hinge 68 to resiliently spring the handle 16 to an accessible position above its base compartment 74.

It is obvious that the rotating hinge sleeves 69 will abut the knurled periphery of the handle to rotate it into and out of its base compartment against the pressure of the wall 77.

I have shown in Fig. 5 an alternative type of cover member having a slightly different type of safety razor blade holding compartment 80. In

this instance a spare safety razor blade container 94 is provided having an open end 96 and pivotally mounted on the front end of the spare safety razor compartment 80 by the hinge 98. As shown in Fig. 5, when in open position the container 94 may be pivoted outwards so that the safety razor blades 84 may be removed therefrom. When moved to closed position the upper surface of said container 94 may act as a shelf to abut the end of the safety razor to retain it compactly within its respective compartment 70 in use.

It is obvious that when not in use the safety razor may be shut within its container and take up the compact position shown in Fig. 1 of a size small enough to be carried around in a vest pocket. When it is desired to use the safety razor the upper cover member 66 is pivoted outwardly to an open position and the handle member 16 will be moved out of its respective compartment by the hinge sleeves as explained to an accessible position. The safety razor base will lie in its respective compartment 70 and the spare safety razor blades 84 will lie in their respective compartment 80. The handle 16 may then be readily taken from its compartment and the lower end thereof threaded on the lug 36 until the lower end 43 thereof abuts the upper guard member, when on further rotation thereof the upper handle member 42 will slide telescopically outwards relative to the lower handle member 40 until the lower end 60 abuts the conical portion 58 when it will become bound therein and the lower end thereof will then force the upper guard member downwardly against the lower guard member to bend the flexible safety razor blade into a concaved cutting position. It is obvious then that the safety razor may be withdrawn for use by merely lifting on the handle 16 and tilting one end of the razor upwards and then drawing the other end out laterally from below its respective sheft 72 to a position for use. In similar fashion my improved safety razor may be disassembled and packed within said container.

It is obvious therefore that I have provided a novel type of safety razor, including a readily extensible handle therefor which functions in combination with the novel container therefor to make a completely demountable type of safety razor which may be readily packed into a compact form for carrying around in the pocket.

It is understood that my invention is not limited to the specific embodiments shown and that various deviations may be made therefrom without departing from the spirit and scope of the appended claims.

What I claim is:

1. A safety razor having a flexible safety razor blade having a cutting edge on each side thereof and three longitudinally aligned holes centrally thereof, a laterally toothed transversely concaved upper guard member having three aligned holes therein, a transversely concaved lower guard member having a threaded handle attaching lug projecting upwardly through the centrally aligned holes in said blades and upper guard member and guide lugs projecting upwardly on each side of said handle attaching lug through the aligned guide holes in said razor and upper guard member, a handle for said razor having a lower member having an internally threaded lower end adapted to receive the threads of said handle attaching lug and adapted on threading thereon to have the lower end thereof abut said upper guard member to compress it downwardly against said lower guard member to bend said flexible razor

blade to a transversely concaved cutting position and having an enlarged externally threaded upper end, and a hollow upper handle member having an internally threaded inner periphery adapted to receive the threaded upper end of said lower handle member and a conically tapered lower end tapered to the periphery of the main portion of said lower handle member, the cooperating threads on said upper and lower handle members being of a reverse pitch to that of said cooperating threads on said lower handle member and handle attaching lug and of relatively fast pitch, whereby on initial threaded engagement of said handle attaching member with said handle attaching lug said handle may be screwed onto said lug until the lower end thereof abuts said upper guard member, on further rotation thereof said upper handle member may rise rapidly on said lower handle member until the upper end of said lower handle member becomes tightly bound within the tapered lower end of said upper handle member and on further rotation thereof said handle member may further rotate on said handle attaching lug to compress said guard members to bend said flexible razor blade to a transversely concaved cutting position.

2. A safety razor having a safety razor blade having a cutting edge on each side thereof and guard means for each side of the cutting edge of said safety razor blade having threaded handle attaching means centrally thereof, a handle for said razor having a lower member having threaded means on the lower end thereof for threaded engagement with said threaded handle attaching guard means and adapted on threading thereon to have the lower end thereof abut said guard means and having an enlarged externally threaded upper end and a hollow upper handle member having an internally threaded inner periphery adapted to receive the threaded upper end of said lower handle member and a conically tapered lower end tapered to the periphery of the main portions of said lower handle member, the cooperating threads on said upper and lower handle members being of a reverse pitch to that of said cooperating threads on said lower handle member and handle attaching guard means and of relatively fast pitch, whereby on initial threaded engagement of said handle attaching member with said handle attaching guard means, said handle may be screwed onto said means until the lower end thereof abuts said guard means and on further rotation thereof said upper handle member may rise rapidly on said lower handle member until the upper end of said lower handle member becomes tightly bound within the tapered lower end of said upper handle member.

3. A safety razor having a safety razor blade having a cutting edge on each side thereof and guard means for each side of the cutting edge of said safety razor blade having threaded handle attaching means centrally thereof, a handle for said razor having a lower member having threaded means on the lower end thereof for threaded engagement with said threaded handle attaching guard means and adapted on threading thereon to have the lower end thereof abut said guard means and having an enlarged externally threaded upper end, and a hollow upper handle member having an internally threaded inner periphery adapted to receive the threaded upper end of said lower handle member and a conically tapered lower end tapered to the periphery of the main portion of said lower handle member, the

cooperating threads on said upper and lower handle members being of a reverse pitch to that of said cooperating threads on said lower handle member and handle attaching guard means, whereby on initial threaded engagement of said handle attaching member with said handle attaching guard means, said handle may be screwed onto said means until the lower end thereof abuts said guard means, and on further rotation thereof said upper handle member may rise on said lower handle member until the upper end of said lower handle member becomes tightly bound within the tapered lower end of said upper handle member.

4. A safety razor having a flexible safety razor blade having a cutting edge on each side thereof and three longitudinally aligned holes centrally thereof, a laterally toothed transversely concaved upper guard member having three aligned holes therein, a transversely concaved lower guard member having a threaded handle attaching lug projecting upwardly through the centrally aligned holes in said blade and upper guard member and guide lugs projecting upwardly on each side of said handle attaching lug through the aligned guide holes in said razor and upper guard member, a handle for said razor having a lower member having an internally threaded lower end adapted to receive the threads of said handle attaching lug and adapted on threading thereon to have the lower end thereof abut said upper guard member to compress it downwardly against said lower guard member to bend said flexible razor blade to a transversely concaved cutting position and having an enlarged externally threaded upper end and a hollow upper handle member having an internally threaded inner periphery adapted to receive the threaded upper end of said lower handle member and a conically tapered lower end tapered to the periphery of the main portion of said lower handle member, the cooperating threads on said upper and lower handle members being of a reverse pitch to that of said cooperating threads on said lower handle member and handle attaching lug, whereby on initial threaded engagement of said handle attaching member with said handle attaching lug said handle may be screwed onto said lug until the lower end thereof abuts said upper guard member, on further rotation thereof said upper handle member may rise on said lower handle member until the upper end of said lower handle member becomes tightly bound within the tapered lower end of said upper handle member and on further rotation thereof said handle member may further rotate on said handle attaching lug to compress said guard members to bend said flexible razor blade to a transversely concaved cutting position.

5. A handle for safety razors having a lower member having an internally threaded lower end adapted to receive the threads of a handle attaching lug on guard means on said safety razor adapted on threading thereon to have the lower end thereof abut said guard means and having an enlarged externally threaded upper end and a hollow upper handle member having an internally

threaded inner periphery adapted to receive the threaded upper end of said lower handle member and a conically tapered lower end tapered to the periphery of the main portion of said lower handle member, the cooperating threads on said upper and lower handle members being of a reverse pitch to that of said cooperating threads on said lower handle member and handle attaching lug on said guard means and of relatively fast pitch, whereby on initial threaded engagement of said lower handle member with said handle attaching lug, said handle may be screwed onto said lug until the lower end thereof abuts said guard means and on further rotation thereof said upper handle member may rise rapidly on said lower handle member until the upper end of said lower handle member becomes tightly bound within the tapered lower end of said upper handle member.

6. A handle for safety razors having a lower member having an internally threaded lower end adapted to receive the threads of a handle attaching lug on guard means on said safety razor adapted on threading thereon to have the lower end thereof abut said guard means and having an enlarged externally threaded upper end and a hollow upper handle member having an internally threaded inner periphery adapted to receive the threaded upper end of said lower handle member and a conically tapered lower end tapered to the periphery of the main portion of said lower handle member, the cooperating threads on said upper and lower handle members being of a reverse pitch to that of said cooperating threads on said lower handle member and handle attaching lug on said guard means, whereby on initial threaded engagement of said lower handle member with said handle attaching lug said handle may be screwed onto said lug until the lower end thereof abuts said guard means and on further rotation thereof said upper handle member may rise on said lower handle member until the upper end of said lower handle member becomes tightly bound within the tapered lower end of said upper handle member.

7. A handle for safety razors comprising a lower member having means therein adapted to be attached to the guard means of a safety razor and a rigid upper handle member rapidly telescopically permanently threaded over said lower handle member adapted on relative rotation of said members to be rapidly moved outwardly and means to releasably retain said upper handle member on said lower handle member in extended operating position.

8. A handle for safety razors comprising a lower member having means therein adapted to be attached to the guard means of a safety razor and a rigid upper handle member telescopically permanently threaded over said lower handle member adapted on relative rotation of said members to be moved outwardly and means to releasably retain said upper handle member on said lower handle member in extended operating position.

WALFRID WALLENTIN.