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W. DEUTSCH

2,442,078

COLLAPSIBLE RAZOR

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Fig. 1.

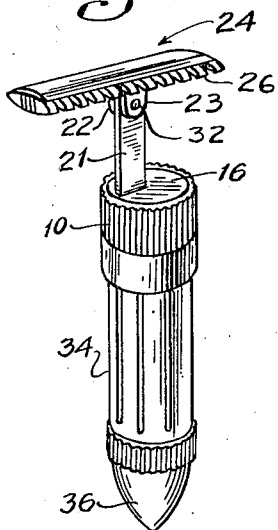


Fig. 2.

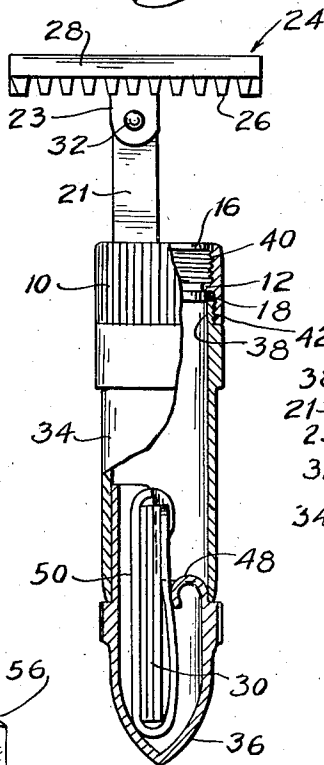


Fig. 3.

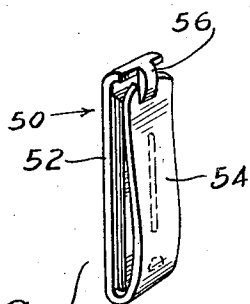
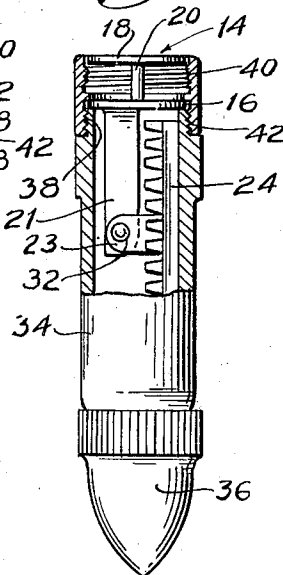


Fig. 4.

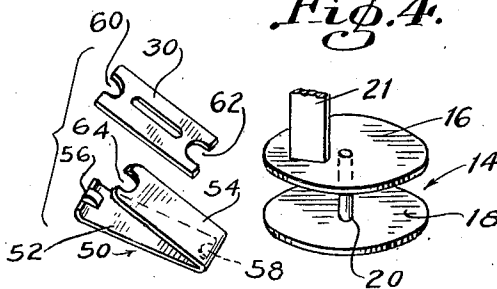
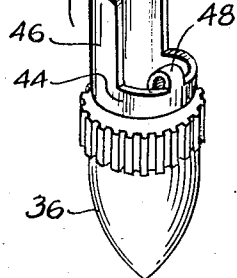


Fig. 5.

Fig. 6.



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COLLAPSIBLE RAZOR

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2 Claims. (Cl. 30-47)

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This invention relates to razors and more particularly to the class of demountable or collapsible razors which may be housed in a small associated or connected container for shipping or storage when not in use, at least a portion of which container serves as a handle for the razor when shaving.

It is an object of the invention to provide a razor assembly of the type described which has a more compact and more conveniently operated association of parts than heretofore obtainable.

A further purpose is the provision of such an improved razor housing adapted to serve both as a handle for the shaving instrument when in use, and as a storage chamber for the collapsed shaving head and spare blades as well.

Another object is to provide an associated razor and housing wherein the latter may be completely closed during both use and storage without requiring a detachable cap or other member which is useful only in either the open or closed form of assembly.

A still further purpose is the provision of a sheath or holder for a supply of blades adapted to be lodged within the housing adjacent the shaving head.

Additional objects and advantages of the present invention will become apparent to those skilled in the art as the description proceeds, the novelty consisting in the features of construction, combination of parts, the unique relations of the members and the relative proportioning and disposition thereof, all as more completely outlined herein and set forth in the appended claims.

In the drawings which form part of the present specification:

Fig. 1 is a perspective view of my new collapsible razor assembled for shaving;

Fig. 2 is a side elevation of the razor of Fig. 1 with parts broken away to show the internal construction;

Fig. 3 is a side elevation of the collapsed razor when assembled for storage, with parts broken away to show the position of the shaving head and its appendent housing;

Fig. 4 is a perspective view of the slidable base assembly on which the shaving head is mounted;

Fig. 5 is a perspective view of my blade-holding sheath together with a razor blade of the type adapted to be stored therein; and

Fig. 6 is an exploded view of the detachable cap of the razor housing together with my sheath containing spare blades, which sheath is adapted to be retained in said cap.

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In the embodiment here illustrated, my collapsed shaving head, together with a supply of blades is designed to be snugly contained in an essentially bullet-shaped housing, large enough only to provide the necessary knurled or fluted gripping surface to serve as a handle for the shaving head when the latter is withdrawn from the housing, inverted and mounted on the container for shaving.

As seen particularly in Figs. 2 and 3, within an open-ended short, cylindrical coupling sleeve 10, having an inwardly projecting lug or annular shoulder 12, is slidably mounted a base assembly 14, composed of two spaced disks 16 and 18 joined by a short axial stem 20, said disks being disposed on opposite sides of the internal shoulder 12 so that when either disk in turn abuts against one side of the shoulder, the opposite disk will lie substantially flush with the adjacent end of the sleeve 10.

Eccentrically located upon the outer face of the disk 16 there extends upward a longitudinal arm or shank 21, the outer extremity of which is received between a pair of laterally spaced lugs 22 and 23 which support a shaving head 24, conveniently of the type described in my U. S. Letters Patent 1,878,269 and consisting essentially of a guard or rake portion 26, a cover 28 secured thereto, and a double-edged blade 30 held between the guard and cover, the whole shaving head being disposed to swing on a pivot pin 32 from a perpendicular or operative position through a 90° arc so as to allow it to rest against the shank 21 and be thus insertable within a tubular closure member 34 as shown in Fig. 3.

The closure shell 34, as here illustrated, consists essentially of a tube having a parabolic closed end or cap 36 and a circular open end 38 externally threaded so as to engage alternately, internal threads 40 or 42 disposed in either end of the housing 10 on opposite sides of the shoulder 12. Thus, when the collapsed shaving head 24 is inserted within the shell 34, the threaded end 38 of the shell is screwed into the housing 10 until the razor-holding disk 16 is lodged against one side of the shoulder 12, at which time the opposite disk 18 is disposed even with the end 38 of the housing so as to allow the whole unit to be stood on this end. On the other hand, upon disconnecting the closure shell 34 it may then be inserted into the opposite end of the housing and screwed up until the bottom disk 18 lodges against the other side of the shoulder 12, the top or razor-holding disk 16 becoming flush with the opposite end of the housing 10 and the closure 34, there-

upon forming a handle for using the razor as shown in Figs. 1 and 2.

Another feature of the present construction is the provision of facilities for storing a supply of blades within the closure shell and in this connection the tapered or bullet shaped end 36 of the shell desirably is made detachable as by the provision of an annular, restricted-neck portion 44, arising from the cap 36 and adapted to be snugly received within the shell 34. The neck 44 has a semi-cylindrical lip 46, projecting from one side thereof and an inwardly bowed retaining spring 48 disposed at the opposite edge, said spring being adapted to engage a blade sheath 50 and yieldingly hold the same in place against the inside surface or trough 49 of the lip 46.

The blade sheath 50 is preferably formed from a strip of metal or plastic material bent into the shape of a U, one arm of the U serving as a base 52 and being semi-rigid and somewhat longer than the other arm 54 which functions as a flexible cover. Within the sheath at each end of the base portion 52 are disposed retaining lugs, 56 and 58 respectively, which lugs are shaped to be received in corresponding rectangular notches 60 and 62 of the razor blade 30 when the latter is inserted in the sheath. The cover or shorter arm 54 of the sheath is formed with a longitudinal notch 64 at its free end adapted to frictionally engage both sides of the adjacent lug 56, thereby forming a closed loop which securely holds the blades and guards the same against damage.

By this present construction, it will be seen that the sheath containing the spare blades may be inserted or removed at will from the closure when the shaving head is either in operative or collapsed position but on the other hand it is not necessary to remove the cap 36 from the closure tube 34 when removing or inserting the shaving head therein. Again, it will be observed that since the razor shank 22 is mounted to one side of the base disk 16, the shaving head 24 in its collapsed position lies along the opposite wall of the closure tube 34, thus permitting the spare-blade sheath 50 to occupy a position diagonally opposite the outer half of the collapsed head and in linear alignment with the shank.

While I have shown and described in some detail what presently appears to be the preferred embodiment of my improved collapsible razor, it is to be understood that various modifications may be made in the construction and operation thereof without departing from the scope of my invention which is to be restricted only by the

following claims and the limitations imposed by the prior art.

The invention claimed is:

1. A razor assembly comprising: a coupling member having open ends and an internally projecting shoulder; a base member contained within said coupling member and having a pair of axially spaced plates disposed on opposite sides of said shoulder so spaced that when either of said plates abuts against said shoulder, the other plate is disposed substantially flush with the adjacent end of said coupling member; a shaving head mounted on said base member; and a hollow container one end of which is adapted to engage selectively either end of said coupling member and to lodge said base member at the opposite end of said coupling member, whereby said container provides a handle for the shaving head when the latter is in operative position and a housing for said shaving head when the latter is inserted in said container.

2. A razor assembly comprising: a cylindrical coupling member having open ends and an internally projecting shoulder; a base member contained within said coupling member and having a pair of axially spaced disks disposed on opposite sides of said shoulder and so spaced that when either of said disks abuts against said shoulder, the other disk is disposed substantially flush with the adjacent end of said coupling member; a longitudinal, outwardly projecting arm, eccentrically mounted on one of said disks; a shaving head pivotally connected to the outer end of said arm and movable between an operative position perpendicular to the arm and a collapsed position parallel to the arm; and a tubular container one end of which is adapted to engage selectively either end of the coupling member so as to lodge one of said disks against said shoulder and thus to provide a handle for said shaving head when the latter is in operative position and a housing for said arm and shaving head when the latter is in collapsed position.

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