

1

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RAZOR CASES, SHAVING KITS, AND THE LIKE
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Some purchasers of those shaving kits which include razor cases continue to retain the razor and blade magazine in the razor cases between uses, and travel with the complete kit—often inserting the razor case in a traveling bag or brief case in a haphazard manner—and seek a sturdy case and one which will effectively secure the razor and blade magazine in place even when the cover is not fully closed. Whether or not this is the case, purchasers generally prefer to purchase an inexpensive kit. However, while many proposals have been made for the provision of razor cases, and particularly of plastic razor cases, and razor kits including the same, these proposals have tended to fall short of one or the other or both of the above desiderata.

With the foregoing and other considerations in view, the present invention contemplates the provision of a razor case of a simple, sturdy and inexpensive construction which will serve the various demands which will be made of it as a part of a razor kit in a highly effective and desirable manner.

The invention accordingly comprises the features of construction, combinations of elements, and arrangement of parts, which will be exemplified in the constructions hereinafter set forth and the scope of the application of which will be indicated in the claims.

For a fuller understanding of the nature and objects of the invention, reference should be had to the following detailed description taken in connection with the accompanying drawings, in which:

FIGURE 1 is a perspective view, partly broken away, of one form of a shaving kit including a razor case, both embodying the invention, the razor case being shown in open position;

FIG. 2 is a top view thereof;

FIG. 3 is a fragmentary sectional view taken along the line 3—3 of FIG. 2 and on an enlarged scale;

FIG. 4 is a transverse sectional view on the line 4—4 of FIG. 2 and on the scale of FIG. 3 showing the razor case in closed position;

FIG. 5 is a fragmentary sectional view taken along the line 5—5 of FIG. 2 and on the scale of FIG. 3;

FIG. 6 is a fragmentary rear view partly broken away and showing the hinge mechanism on a slightly smaller scale; and

FIG. 7 is a detail view showing a modification of the hinge construction.

In the exemplified form of construction, the razor kit comprises a razor case 10 containing an injector razor 11 and an injector dispenser 12 containing injector blades to be injected into the razor. The razor case, in the present instance, is composed of a lower opaque container section 15 molded from plastic and a transparent cover section 16 molded from plastic. The lower section 15 comprises a relatively low front wall 20, a relatively high rear wall 21, and end walls 22 and 23 the upper edges of which slope forwardly, in the present instance, from the upper edge of the rear wall 21 to the upper edge of the front wall 20. A platform member 25 extends inwardly from upper edge portions of the walls of the lower section, and slopes forwardly in conformation with the slope of the upper edges of the end walls. Reinforcements 26 extend inwardly from each of the walls 20, 21, 22, and 23 and downwardly from the platform 25.

2

Near the end wall 22 of the lower section 15, and integral with the platform 25 in the present instance, is a cradle 29 which comprises a transverse upright 30 and in which there is formed a recess 31 under an overhang 32 and adapted to receive an angulated portion 33 of the head 34 of the razor 11. Since the recess 31 extends toward the (opposite) end wall 23 of the section 15 and the overhang extends toward the wall 22, the angulated portion 33 of the head may be slid into the recess 31 and under the overhang 32 to hold the head 34 of the razor against upward movement. Near the end wall 23 there is provided a spring clip 35 comprising arms 36 and 37 which are molded integrally with the platform in the present instance, and which are formed, respectively, at their upper portions with downwardly-converging slopes 38 and 39 and with diverging recesses 40 and 41 which conform to the shape of a portion 42 of the handle 43 of the razor. The razor handle is formed, at least at this portion, with longitudinal grooves 44 and 45 at opposite sides thereof; and inwardly-extending nubs 46 and 47 on the arms 36 and 37, respectively, are adapted to enter the respective grooves. The portion 42 can, therefore, be pushed between the arms 36 and 37 when the angulated portion 33 is in the recess 31. In this manner the razor is readily located and is held in place in a particularly secure manner.

Under the major portion of the razor, the upper surface of the platform is slightly recessed, as at 49, to receive a reflective or decorative surfacing 50.

Between the recess 49 and the rear wall 21, the platform is depressed to provide a well 52 for the reception of the lower portion of the body of the blade dispenser 12. In this lower portion there is formed a chamber 55 for receiving used blades, and the bottom of the dispenser is formed with a transverse slot 57 for receiving such used blades. Extending upwardly from the bottom wall of the well 52 is a spring clip 58 comprising arms 59 and 60 having at their upper portions downwardly diverging surfaces 61 and 62 the upper portions of which are closer together than the side edges of the slot 57 and the lower portions of which are a slightly greater distance apart than the side edges of the slot, and the lower portions of which are formed with downwardly-converging surfaces 63 and 64, the lower portions of which are just close enough together to fit within the slot 57.

The cover section 16 is formed in the present instance with a horizontal top wall 65, and walls 66 and 67 having lower edges which slope downwardly and forwardly to fit above the walls 22 and 23 of the lower section, a rear wall 68, and a resilient front wall 69.

The cover 16 is horizontally mounted on the lower section 15 by a pair of hinge means 70. Each hinge means 70 comprises an integral nub 71 extending rearwardly from the upper portion of the wall 21 and carrying an integral dependent resilient tail 72, and a nub 73 extending downwardly from the rear surface of the wall 68 and below the same at the side of the nub 71 and carrying a pintle 74 extending under the nub 71 and in front of the tail 72. As exemplified, each pintle is supported by two nubs 73, one on each side of the nub 71. The pintle lies substantially tangent to the rear surface of the rear wall 21, and the lower surface of the nub 71 and the forward surface of the tail 72 are formed to provide a partly-cylindrical bearing surface 75 for the pintle which extends the full width of the nub 71 and the tail 72 to firmly and rotatably support the pintle. The surface 75 terminates on a line below a lower rearward portion of the pintle, and the tail 72 is formed with a downwardly and rearwardly inclined surface 77 a lower portion of which is spaced rearwardly of the wall 21 a greater distance than the diameter of the pintle. Accordingly, in assembly of the razor case, the pintles may be inserted

from below between the lower ends of the tails 72 and moved upwardly to spring the tails outwardly, and to permit the pintles to move past the humps provided on the tails adjacent to lines 76, and into the bearings 75, in which once the tails have sprung forwardly they will then be permanently retained under all ordinary conditions. In order to facilitate the rearward movement of the tails when the pintles are moved upwardly into place, the lower portion of each nub 71 is split thruout its width by an upwardly-extending slot 80, as shown in FIG. 4, which interrupts the upper portion of the bearing surface, or by a rearward depression 82, as shown in the nub 71a in FIG. 7, which spaces this portion of the nub from the rear wall 21 to provide a space between the bearing surface 75a and the line of 83 on the rear surface of the wall 21 which lies forwardly of the pintle.

Dependent lugs 84 assist in holding the razor and injector in place when the cover is closed.

Latch means 85 are provided for releasably connecting the cover section 16 with the lower section 15. As exemplified, this means comprises a recess 86 extending rearwardly from the front wall 20 and downwardly from the platform 25, nubs 87 extending forwardly at each side of this recess, and lugs 88 extending toward each other in front of the recess; and depending lugs 89 on the front wall 69 of the cover and formed with forwardly-extending latch members 91 adapted to move into the recess 86 and downwardly past the lugs 88 when the front wall 69 is flexed rearwardly slightly as the cover is brought to closed position, and to be moved under the lugs 88 by the resiliency of the wall 69 when rearward pressure on the cover is released. Conversely, the cover may be opened by slight rearward pressure on the wall 69 to move the latch members 91 from under the lugs 88, and an upward swinging movement of the cover. In order to exactly locate the position of application of the rearward pressure on the wall 69 and to assist in the application of such pressure, a forwardly-extending nub 95 is provided on the forward surface of this wall above, and forward of, a portion of the recess 86. In the exemplified form of construction, the upper rearward corners of the lugs 88 and the lower forward corners of the latch members 91 are formed, respectively, with downwardly and rearwardly inclined surfaces 96 and 97 to assist in moving the latch members into latching position.

One advantage of the construction exemplified is that the hinge cannot geometrically come apart from the back when the latch is in operation, or engaged.

The exemplified razor is of the type disclosed and claimed in the application of James B. Kruger et al., Serial No. 138,485, filed September 15 1961, now Patent No. 3,111,756, and the exemplified dispenser is of the type disclosed and claimed in the application of James B. Kruger et al., Serial No. 164,103, filed January 3, 1962, now Patent No. 3,126,126.

Certain subject matter not claimed herein is claimed in my copending application Serial No. 421,909, filed December 29, 1964, as a division of the present case.

Since certain changes may be made in the above construction and different embodiments of the invention could be made without departing from the scope thereof, it is intended that all matter contained in the above description or shown in the accompanying drawings shall be interpreted as illustrative and not in a limiting sense.

I claim:

1. In a shaving kit, in combination, a razor case, a safety razor comprising a handle carrying a razor head at the forward end of the handle, at least part of said head extending rearwardly at an acute angle to the handle, said razor lying in said razor case with its handle in a substantially horizontal position, said razor case having fixed thereon an overhang overlying and blocking direct upward movement of a rearwardly-extending portion of said head for removably holding said portion of the head

of the razor in said position, said case providing an opening forwardly of said overhang into which said head extends and through it may be removed, a blade magazine containing blades for said razor, said razor case also providing a well for receiving said magazine, a spring clip carried by said razor case for releasably retaining the handle of the razor when said handle is in said position and said portion of the head is under said overhang, and a spring clip also carried by said razor case retaining said magazine in said well.

2. A shaving kit as in claim 1 wherein said razor case comprises a lower section formed of molded plastic and wherein said spring clips are integrally formed of molded plastic.

3. A shaving kit as in claim 1 wherein there is provided platform means beneath the greater part of said razor and between said well and the first-mentioned spring clip, and means providing a reflective surface at the upper side of said platform means.

4. In a shaving kit, in combination, a razor blade magazine providing a used-blade compartment in a lower portion thereof and having an opening in the bottom wall thereof for the insertion of used blades, and a razor case providing a well into which the bottom of said magazine extends, and a pair of upstanding outwardly-resilient spaced prongs which extend thru and above said opening and beyond opposite edges thereof and the lower ends of which embrace an area no wider than said opening and which are formed with downwardly-diverging upwardly-disposed surfaces which at a lower portion thereof are wider than said opening and which at an upper portion are narrower than said opening to releasably hold said magazine in said well.

5. A shaving kit comprising a razor having a head and a handle extending therefrom, and a razor case having means into which the head of the razor extends and a spring clip engaging the handle of the razor, said handle being formed, at least at a portion thereof, with indentations in its sides and said spring clip being formed with portions entering said indentations.

6. In a shaving kit, in combination, a razor comprising a handle and a head portion extending at one acute angle thereto, a razor case having vertical end walls and containing said razor with said handle extending generally horizontally toward one of said end walls and said head lying in proximity to the other of said end walls, said case being formed to provide an overhang extending toward and terminating near the other end wall and providing a recess having a portion lying between said overhang and said end wall and a portion extending away from said end wall and under said overhang into which recess portions a part of said head extends, and a spring clip adapted to releasably retain said handle in such a location, said overhang preventing the removal of the head by a vertical movement when the handle is at said location.

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