Feb. 9, 1932. N. TESTI 1,843,994

BLADE CONTAINER

Filed April 10, 1931

Fig. 1.

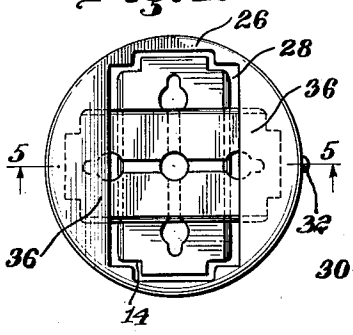


Fig. 2.

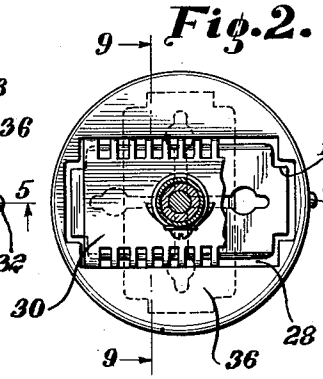


Fig. 3.

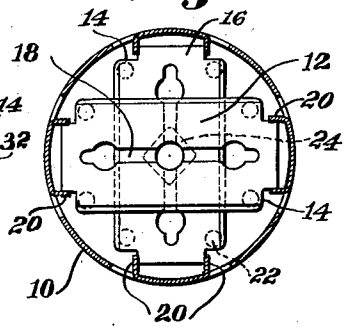


Fig. 4.

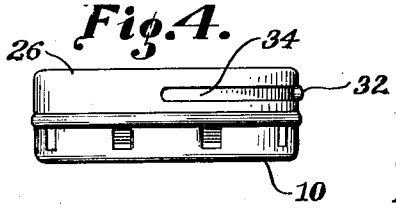


Fig. 5.

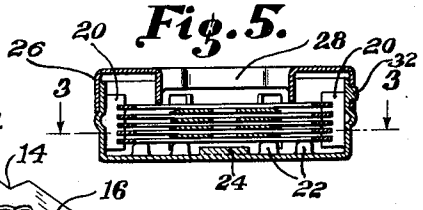


Fig. 6.

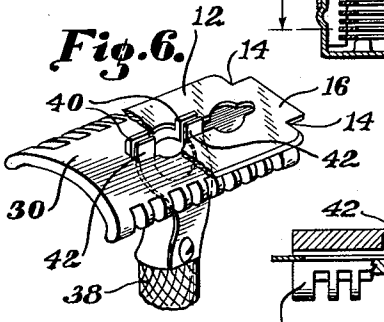


Fig. 7.

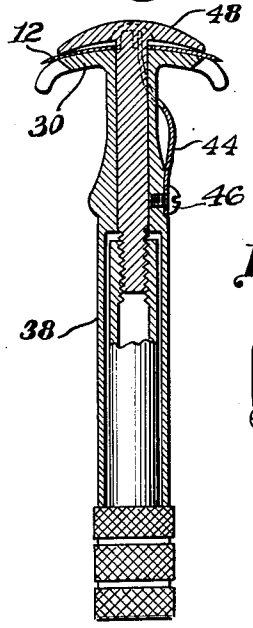


Fig. 8.

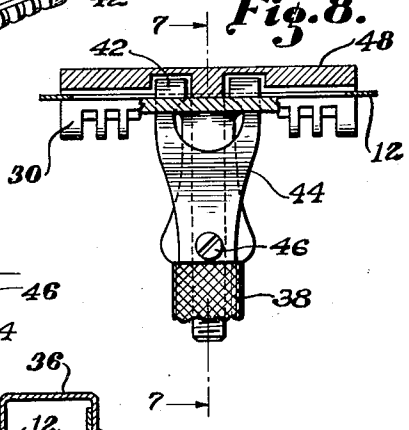
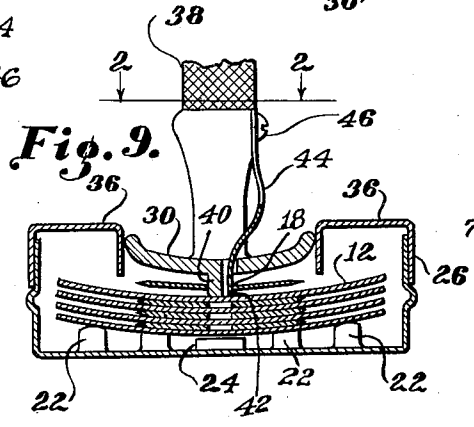


Fig. 9.



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UNITED STATES PATENT OFFICE

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BLADE CONTAINER

Application filed April 10, 1931. Serial No. 529,189.

This invention relates to safety razors and safety razor blade magazines or containers, and has for its primary object the production of a novel safety razor blade magazine adapted to so cooperate with a safety razor that the mere application of the razor to the magazine will deposit a blade in shaving position on the razor.

Safety razor blades are ordinarily packed in cartons or packets within which each blade is carefully wrapped and inserted within an envelope. The opening of this carton, the removal and unwrapping of a blade and the placing of the blade in the razor is somewhat inconvenient and requires an appreciable amount of time. My invention contemplates a blade magazine and a cooperating razor which will eliminate these objections. In accordance with the invention the blades are stacked in unwrapped condition in a novel blade container and are so arranged therein that the head or guard of the razor may be inserted thereinto and applied to the top blade of the stack. The razor is constructed to retain the top blade thereon and the magazine or container is constructed to retain therein all of the blades except the top blade which clings to and is removed by the razor.

In the preferred form of the invention which is particularly adapted to the use of perforated blades, the magazine is constructed to hold a stack of blades with the alternate blades thereof arranged in relatively angular relation and the razor is adapted to be applied to the top blade and to extend through its perforation into engagement with the remainder of the stack, the top blade being thereby frictionally engaged with the razor and withdrawn therewith. The production of such a novel blade box or magazine and a cooperating razor comprises a further object of my invention.

In the accompanying drawing I have illustrated one specific form of my invention but it will be understood that the invention can be otherwise embodied and that the drawing is not to be construed as definite or limiting the scope of the invention, the claims appended hereto being relied upon for that purpose.

Referring to the figures of the drawings,

Fig. 1 is a plan view of a blade magazine embodying one form of my invention.

Fig. 2 is a plan view of the magazine and a cooperating razor, taken on line 2—2 of Fig. 9.

Fig. 3 is a plan sectional view taken on line 3—3 of Fig. 5.

Fig. 4 is a side elevation of the magazine.

Fig. 5 is a transverse sectional view taken on line 5—5 of Fig. 1.

Fig. 6 is a fragmentary perspective view of a razor with a blade applied thereto.

Fig. 7 is a longitudinal sectional view of the razor taken on line 7—7 of Fig. 8.

Fig. 8 is a fragmentary side elevation of the razor, partially broken away.

Fig. 9 is a fragmentary sectional view through the magazine and the razor taken on line 9—9 of Fig. 2.

Referring more specifically to the drawing by reference characters, 10 indicates a blade box of circular outline and of a diameter to freely receive safety razor blades therein as illustrated. The blades 12 which I have preferred to illustrate are of the new Gillette type and each embodies cut-out corners 14 forming extended end portions 16 and a centrally disposed slot or perforation 18 therethrough. The box is provided with guideways for reeciving the blade ends 16 and each such guideway is preferably formed by two relatively spaced ears 20 stamped from the side wall of the box and bent inwardly. Posts 22 for supporting the blade end corners are provided adjacent to the ears 20 and a limit stop abutment 24, disposed somewhat lower than the posts, is formed at the central portion of the box bottom. The guideways are preferably arranged 90° apart, as illustrated, whereby blades guided therein will be at right angles to each other but it will of course be understood that this relative transverse relation of the blades need not be at this particular angle.

The blades are stacked in the container in the manner illustrated, alternate blades of the stack extending in relatively transverse relation and the two bottom blades are supported at their ends on the posts 22. The stop 24

permits a limited depressing of the central portion of the stack as shown in Fig. 9.

The container may have a cover 26 fitting thereover and provided with an opening 28 of a size and shape to receive the head or guard 30 of a razor and permit the outward passage of a blade. The box is also preferably provided with stop means whereby the cover can be quickly located with its opening 28 in alignment with the top blade of the stack as illustrated in Fig. 2. This means may comprise a pin 32 on the box extending through a 90° slot 34 in the side portion of the cover whereby the cover may be rotated to the two stop positions shown in Figs. 1 and 2.

In the position shown in Fig. 2 the top blade is fully exposed, and the razor is so constructed that the same may be inserted through the opening 28 and so engage the top blade as to withdraw the same with the razor. It will be noted that the side portions 36 of the cover extend over the end portions of the next adjacent blade to hold the remainder of the stack within the box when the razor and top blade are withdrawn. While I prefer to retain the blade on the razor by frictional contact, as illustrated and hereinafter described, it will be understood that other means, such as magnetizing the guard 30, may be used if desired.

The razor illustrated comprises the guard 30 carried by a handle 38 and adapted to receive a cooperating cap 48. Blade locating lugs or studs are provided on the outer face of the guard and the width of said lugs is such that they frictionally engage the slot edges of the blade when forced through the slot 18. These lugs may be entirely integral with the guard and of a width to thus frictionally engage with the blade slot or they may conveniently comprise integral sections 40 and cooperating resilient sections 42. These sections 42 may be the extreme end portions of a spring 44 secured to the razor handle at 46. When this razor is applied to the blade stack as in Figs. 2 and 9 the studs pass through the slot 18 of the top blade and engage against the next adjacent blade. Downward pressure of the razor fully engages the top blade with the studs and depresses the central portion of the remaining blades of the stack (Fig. 9), such depression being limited by the stop 24. When the razor is withdrawn the top blade clings thereto and the other blades remain in the magazine; the blade as thus withdrawn is in shaving position on the razor and it is only necessary to apply the razor cap 48 thereto.

It is believed that the construction, use and advantages of my invention will be readily apparent. The box magazine is relatively cheap to manufacture and may therefore conveniently serve the purpose of the ordinary container or carton in which the blades are packed and sold. The blades are held in the container by means engaging only the blade ends, the cutting edges thereby being entirely free from contact with any possible dulling object. In use, the shaver need only rotate the cover to one stop position or the other to bring the opening 28 into alignment with the top blade of the stack and apply the razor thereto. This quite simple and convenient operation places a blade in shaving position on the razor and thus entirely eliminates the time and trouble heretofore experienced in applying new blades to the razor. It will furthermore be seen that the old blade is released from the razor merely by depressing the spring 44 with the thumb.

Having thus described my invention what I claim as new and desire to secure by Letters Patent of the United States is—

1. A safety razor blade magazine, comprising a blade container, means therein for retaining alternate blades of a stack in relatively angular relation, and means on said magazine to prevent the removal of more than one blade at a time.

2. A safety razor blade magazine, comprising a blade container, means therein for retaining alternate blades of a stack in relatively angular relation, means so supporting the blades that the center portions of blades other than the top blade may be depressed relative to their ends, and means on said magazine to prevent the removal of more than one blade at a time.

3. A safety razor blade magazine, comprising a blade container, means therein for retaining alternate blades of a stack in substantially right angular relation, means so supporting the blades that the center portions of blades other than the top blade may be depressed relative to their ends, and stop means for limiting said depression of said blades.

4. A safety razor blade magazine, comprising a blade container, means including pairs of blade end receiving guideways for retaining alternate blades of a stack in relatively angular relation, and means on said magazine to prevent the removal of more than one blade at a time.

5. A safety razor blade magazine, comprising an annular blade container, and means including pairs of blade end receiving guideways for retaining alternate blades of a stack in relatively angular relation, each of said guideways including a pair of relatively spaced ears projecting inwardly from the sides of the container.

6. A safety razor blade magazine, comprising a blade container, means therein for retaining alternate blades of a stack in relatively angular relation, a movable cover on the container having a razor receiving opening therethrough, and stop means for locating the cover opening in alignment with the top blade of the stack.

7. In combination, a safety razor blade magazine comprising a container, means therein for supporting a stack of safety razor blades in alternate angular relation, and a safety razor adapted to be engaged against the top of the stack and retain the top blade against said razor, said container having means for preventing removal of the remaining blades when the razor with the top blade is withdrawn, the top blade as thus removed being located in shaving postion on the razor.

8. In combination, a safety razor blade magazine comprising a container, means therein for supporting a stack of perforated safety razor blades in alternate angular relation, and a safety razor having means thereon for engaging within the perforated portion of the top blade and retaining the blade by frictional contact with said portion, the container having means for preventing removal of the remaining blades when the razor with the top blade is withdrawn, the top blade as thus removed being located in shaving position on the razor.

9. In combination, a safety razor blade magazine comprising a container, means therein for so supporting a stack of safety razor blades that the stack may be depressed below the top blade, and a safety razor having means theron for engaging through the perforated portion of the top blade and depressing the stack therebelow, said last named means being adapted to frictionally engage the perforated portion of the top blade during said depression whereby the top blade is removed upon withdrawal of the razor and the blade as thus removed being located in shaving position on the razor.

10. In combination, a safety razor blade magazine comprising a blade retainer, means therein for retaining blades, a razor having a magnetized guard to engage a blade and remove it from the magazine, and means on said magazine to prevent the removal of more than one blade at a time.

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