Dec. 29, 1942. J. M. GINGRAS 2,306,782

RAZOR BLADE PACKAGE

Filed March 31, 1941

Fig. 1

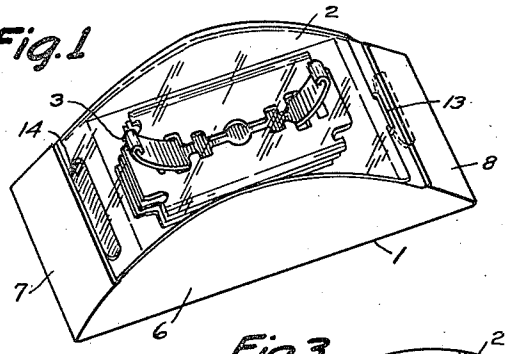


Fig. 2

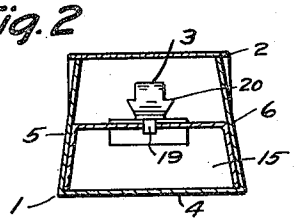


Fig. 4

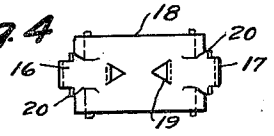


Fig. 3

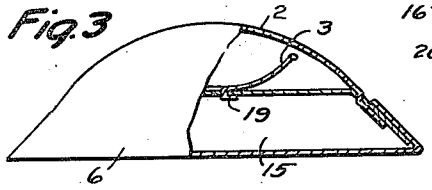


Fig. 5

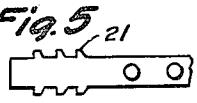


Fig. 6



Fig. 7

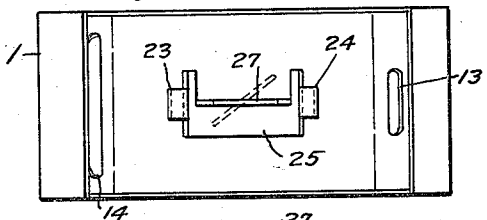


Fig. 9

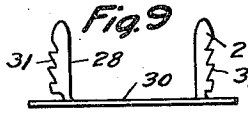


Fig. 10



Fig. 11



Fig. 12



Fig. 8

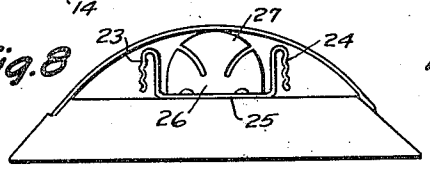


Fig. 13

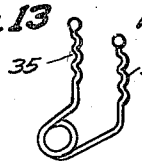


Fig. 14

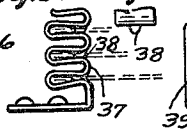


Fig. 15 Fig. 16

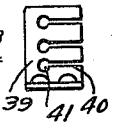


Fig. 17

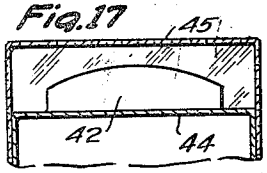


Fig. 18

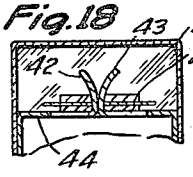


Fig. 19

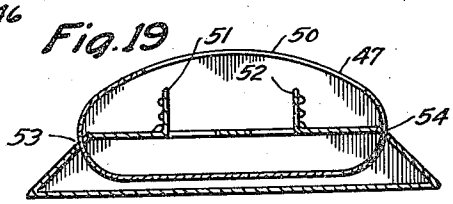


Fig. 21

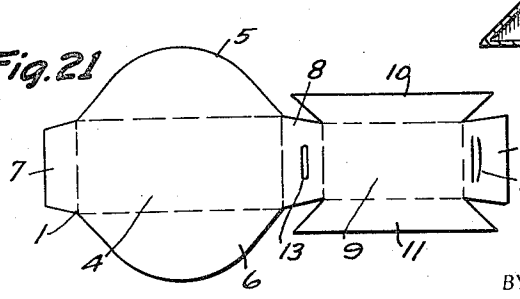
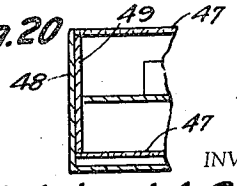


Fig. 20



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RAZOR BLADE PACKAGE

John M. Gingras, Brooklyn, N. Y.

Application March 31, 1941, Serial No. 386,012

1 Claim. (Cl. 206—16)

The purpose of this invention is to facilitate merchandising of razor blades by providing a unique package in which unwrapped blades are held with their cutting edges engaging no wrappers, objects or devices.

The invention is a package for holding razor blades in which the blades are held through the central opening, the notches at the ends, or suspended from the ends.

In order to improve the quality or characteristics of razor blades it has been found desirable to prevent any contact whatever of the cutting edges with any material after the blades are sharpened in manufacturing, and therefore the blades must be packaged without wrappers and with the cutting edges suspended so that they cannot contact or engage the sides of a box or container. Any method of packaging razor blades wherein the cutting edges engage paper or any object or device has a tendency to dull the blade and impair the quality thereof; whereas with the cutting edges free of all envelopes, wrappers, or sides or surfaces of the package they may retain the same degree of sharpness to which they were finished in manufacturing.

The object of this invention is therefore to provide means for advancing the merchandising of razor blades by making it possible to offer blades with sharper cutting edges than is possible with any method of merchandising now in use.

Another object is to provide a method of packaging razor blades without contacting the cutting edges.

Another object is to provide means for holding a plurality of razor blades in a package through the central opening, and for locking each blade individually automatically.

A further object is to provide a package for holding razor blades with the sharpened edges free of any contact with any object or material in which the blades are visible from the exterior of the package.

And a still further object is to provide a razor blade package in which the sharpened edges of blades held therein are suspended in the air without contacting any material, in which the package is of a simple and economical construction.

With these ends in view the invention embodies a base having upwardly extending sides with a transparent cover engaging the upper edges of the sides, and means on the base for holding razor blades in spaced relation and with their sharpened edges extending outward and protected from engagement with any object or device by the sides and cover.

Other features and advantages of the invention will appear from the following description taken in connection with the drawing, wherein:

Figure 1 illustrates the package with razor blades held therein through the central openings thereof.

Figure 2 is a cross section through the package shown in Figure 1.

Figure 3 is a side elevation of the package shown in Figure 1 with part broken away showing the blade holding spring.

Figure 4 is a plan view of the blade holding spring.

Figure 5 shows an alternate design in which projections are provided at the edges of the blade holding spring.

Figure 6 is another alternate design in which the ends of the blade holding spring are corrugated.

Figure 7 shows blade holding means of an alternate design in which means is provided for preventing the blades shaking off of the holding means.

Figure 8 shows a side view of the holding means of Figure 7 with the base of the package shown in elevation.

Figure 9 shows another alternate design in which notched posts are provided for holding the blades.

Figure 10 is an end view of one of the posts shown in Figure 9.

Figure 11 shows another alternate design in which four posts may be used for gripping the blades in the notches at the corners.

Figure 12 is an end view of the device shown in Figure 11 showing alternate blade holding means.

Figure 13 shows wires for holding the ends of the blades providing another alternate holding device.

Figure 14 illustrates another alternate design in which means is provided for suspending the blades from the ends.

Figure 15 shows a projection on the spring members of the device shown in Figure 14 for extending into the slots of the blades to prevent lateral movement thereof.

Figure 16 shows another device for holding the ends of the blades.

Figure 17 illustrates another alternate design in which a square package is used and the blade holding means is stamped from the upper surface of the base.

Figure 18 is a cross section through the device

shown in Figure 17 with part of the base broken away.

Figure 19 shows another alternate arrangement in which the cover is provided in a continuous transparent strip.

Figure 20 is a section through one side of the device shown in Figure 19.

Figure 21 shows a blank from which the base of the package may be formed.

In the drawing the package is shown as it may be made wherein numeral 1 indicates the base of the package, numeral 2, the transparent cover, and numeral 3, the blade holding spring.

The base, and even the entire package, may be of any shape or design, and although it is preferred to form the package from the blank shown in Figure 21, it will be understood that it may be formed in any manner, and instead of being made of paper, or cardboard, as illustrated, it may be made of metal, or a plastic, or any suitable material.

In the design shown the base comprises a section 4 having wings 5 and 6 at the sides, a tab 7 at one end, and a connecting section 8 at the other which connects the lower section of the base to the upper section 9. The section 9 is provided with flaps 10 and 11 which extend downward inside of the wings 5 and 6 as shown in Figure 2, and at the end of the section 9 is a tab 12 which extends under the tab 7 and is gummed thereto. The section 8 is provided with an opening 13 in which one end of the cover is hinged, and the tab 12 is provided with an opening 14 through which used blades may be inserted so that they may be placed in a compartment 15 in the base.

The blades are mounted by any suitable means upon the upper base section 9, and in the design shown in Figures 1 to 4 the blades are held on spring members 16 and 17 extending upward from a base 18 and the base is held to the section 9 by prongs stamped from the base 18 which are inserted through the part 9 and clinched on the under side as shown in Figure 3 in which the prongs are indicated by the numeral 19. The members 16 and 17 are provided with projections 20 upon which the blades may rest, or these may have projections 21 for each blade as shown in Figure 5, or they may be corrugated as shown at 22 in Figure 6, or any means may be provided for holding the blades.

In Figures 7 and 8 the blades may be held on corrugated spring members 23 and 24 at the ends of a base 25 and in the central part of the base is a web 26 with a central section 27 therein, and with the web 26 extending through central slots in the blades the section 27 may be bent as shown in dotted lines in Figure 7 to hold the blades and prevent them dropping off of the spring members should the device be inverted. It will be understood, however, that any other means may be provided for holding the blades on the spring members. The spring members may also be made in any other form and in Figures 9 and 10 posts 28 and 29 are mounted on a base 30 and these are split and provided with notches 31 to facilitate holding and removing blades therefrom, and in Figures 11, 12, and 13, corner posts are provided for engaging the notches at the corners of the blades. These posts may be formed with corrugations 32 as shown in Figure 11 in which the corrugations are graduated with the deeper ones at the lower end to facilitate removing the blades, or the posts 33 may have notches 34 as shown in Figure 12, or they may be formed of wires 35 and 36 as shown in Figure 13.

Figures 14, 15, and 16, show devices that may be placed at one end of the package and the numeral 37 indicates spring sections into which the ends of blades may be inserted and each section may have a projection 38 that snaps into the central opening of the blade to hold the blade against lateral movement. The member 39 shown in Figure 16 is formed with blade slots 40 and these may have openings 41 at their inner ends to provide resiliency.

In Figures 17 and 18, flaps 42 and 43 are stamped from the upper surface 44 of the base and with these bent upward and held together the blades may be placed thereon and then when they are released the upper ends will spring outward as shown in Figure 18 so that the blades will be held and prevented from falling off should the device be inverted. In this design the base is shown as being square, and this may be provided with a square or rectangular shaped cover 45 which may be transparent or of any material. In this design the blades are illustrated as being separated by spacers 46 and it will be understood that these or spacers of any type may be used in any of the other designs.

In Figure 19 an endless cover 47 is provided and this is slidable between the sides 48 and the edges are mounted on the edges of flat members 49 gummed to the inner surfaces of the sides 48, as shown in Figure 20, and with an opening 50 in the cover 47, the cover may be slid around until the opening is at the top and the blades may be removed, whereas when the device is not in use the cover may be turned until the opening is at the bottom, thereby providing means for sealing the device. In this design the blades may be held on notched members 51 and 52 stamped from the upper surface of the base, and the base may be provided with openings 53 and 54 through which the cover may pass.

The notches on these members and also the spring members shown in Figures 1 and 8, and particularly any spring member with notches or corrugations provide means for automatically locking each blade individually, and with the notches or corrugations the spacing members may be omitted between the blades, however it is preferred to use the spacing members because the blades may jar loose and contact each other in handling and shipping.

In merchandising safety razor blades in this manner it is desirable to use blades of stainless steel, however, it will be understood that blades of any material may be used.

It will be noted that this method of packaging facilitates merchandising materially because the blade is open for inspection and any purchaser can readily see that the cutting edge of any blade has not been impaired by the edge engaging any object or device even though the package may have been dropped or shaken.

It will be understood that changes may be made in the construction without departing from the spirit of the invention. One of which changes may be in the use of any of the holding devices illustrated herein in a package, box, or container of any other type or design, another may be in the use of an opaque instead of a transparent cover, and still another may be in the use of blade holding means of any other type or design.

The construction will be readily understood from the foregoing description. In use the package may be provided as shown and described

and with blades placed on the holding devices on the base as shown and described the cover may be closed and the blades are substantially sealed and protected from dust and the like, and at the same time the blades may readily be observed. With the blades held in this manner the edges are free and extend outward into space, and do not engage or contact any surface, object or device, so that with the blades sharpened when manufactured the same sharpness may be assured and this feature may also be observed through the transparent cover.

The cover may also be of any material and in order to facilitate opening the cover a sufficient amount to remove blades freely one end of the cover is inserted through the opening **13** and with ears on the end thereof as indicated in dotted lines in Figure 1, it will be permanently held and when closed the opposite end may be inserted under the flap **7** as shown. Means may also be provided for supporting the cover at the center or any point or points, and in Figure 8 it will be noted that the part **27** of the web **26** engages the under surface of the cover, providing supporting means therefor.

Having thus fully described the invention what I claim as new and desire to secure by Letters Patent, is:

A display package having a base, a horizontal surface spaced from the base, the length of which being less than that of the base, opposed inwardly sloping end walls connecting with the ends of the base and ends of the horizontal surface, side walls also connected with the base and horizontal surface and having arch-shaped portions extending above the said horizontal surface, razor blade supporting means adapted to hold a stack of blades between the said side walls extending upward from the said horizontal surface, each of said sloping end walls having slots therein, a transparent cover member having tabs removably held in the slots of the sloping end members and curved to correspond with and engage the upper edges of the arch-shaped portions of the said side walls, one of the said slots being of sufficient width to receive used razor blades providing means for inserting said used blades therethrough and into the space between the horizontal surface and base.

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