

March 7, 1933.

H. R. NOYES  
RAZOR BLADE PACKAGE  
Filed Nov. 20, 1931

1,899,979

Fig. 1.

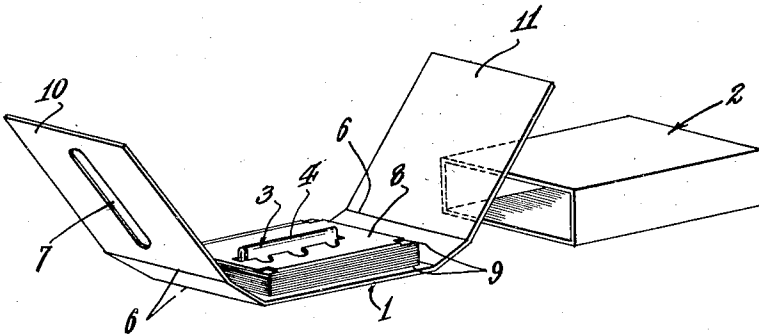


Fig. 2.

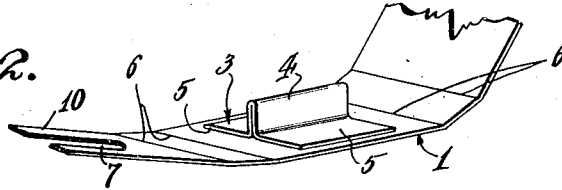


Fig. 6.

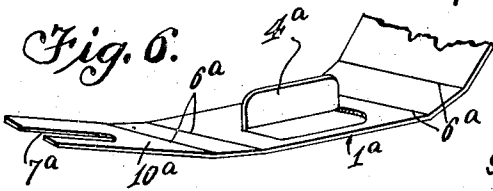


Fig. 3.

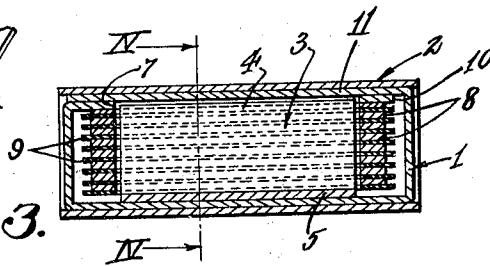


Fig. 4.

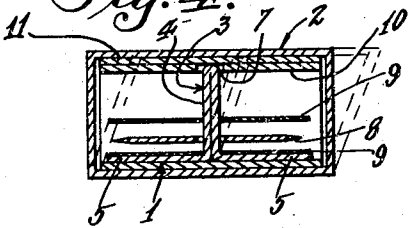
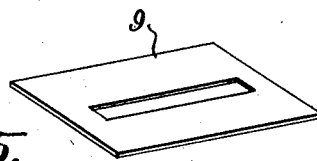


Fig. 5.



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# UNITED STATES PATENT OFFICE

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## RAZOR BLADE PACKAGE

Application filed November 20, 1931. Serial No. 576,245.

This invention relates to packages for safety razor blades, and particularly to packages for slotted blades.

A broad object of the invention is to simplify the packaging of safety razor blades and to provide a container that will give adequate protection to the delicate cutting edge or edges of a razor blade, and that will permit of the ready and convenient removal of the blades therefrom by the user.

As is well known, most safety razor blades are used as they come from the package, without sharpening; therefore, it is important that the blade be well protected by the package to prevent impairment of its delicate cutting edge or edges during shipment and handling.

Heretofore, blades have been commonly packed by wrapping each blade in wax paper, then placing it in an individual envelope, and placing a number of blades so protected in an ordinary cardboard container. This method of packing is objectionable because of the large number of operations necessary to wrap each blade, the fact that the delicate cutting edges may come into direct contact with the wrapping, and the inconvenience of having to free each blade from its multitudinous individual wrappings before it can be used.

In accordance with the present invention I eliminate the necessity of wrapping slotted razor blades individually, by providing a container having a central guide adapted to fit in the slots in the blades and thereby center them in the container so that the cutting edges cannot contact with the walls of the container. This simplifies the original packaging of the blades and their subsequent removal from the package by the consumer, and also gives more complete protection against mechanical injury to the cutting edges of the blades than is given by individual wrappings.

The invention will now be explained with reference to the accompanying drawing in which

Figure 1 is a perspective view of the component parts of my package with blades positioned therein;

Figure 2 is a perspective view of a portion of the package with the blades removed;

Figure 3 is a cross sectional view of a closed container containing blades;

Figure 4 is a cross sectional view in the 55 IV—IV of Figure 3;

Figure 5 is a perspective view of a blade separator that may be used with my container; and

Figure 6 is a perspective view of an alternative form of construction to that shown in Figure 2.

My package comprises an inner retaining member 1 and an outer telescoping container 2, into which the member 1 is adapted to slide.

The inner member 1 is preferably made of cardboard or heavy paper and has secured thereto a guide member 3, which is also preferably made of cardboard or heavy paper. The member 3 may be constructed and attached to the member 1 in various ways but I have found it convenient to form the upper projecting tongue 4 by doubling the material back on itself and then forming wings 5 by bending the ends of the folded piece at right angles to the tongue 5. Wings 5 may then be secured to the member 1 by glue or other suitable adhesive.

The member 1 is scored at points 6 to facilitate the bending back of the ends over the central portion to which the guide member 3 is attached, and one end is provided with a slot 7 adapted to fit over the top of the tongue 4 when it is folded flat.

An alternative method of forming the member 1 is shown in Figure 6 in which parts corresponding to those of Figure 2 are indicated by the same numerals with the suffix "a" added. In this instance the tongue 4a is formed by cutting out and bending back a section of the member 1a itself. If desired, the slot in the cover portion 10a may be constructed as shown in Figure 1 or it may be extended clear to the end of member 10a as shown at 7a. The function of the tongue and the slot are the same whether constructed as shown in Figures 1 to 5 or as in Figure 6.

As previously indicated, this package is particularly designed for blades of the type in general use, which have two cutting edges

and a slot midway between the edges. These blades are packaged in accordance with my invention by simply placing them on the base member 1, the tongue 4 extending upward through the slots in the blades and holding them firmly in proper position. If desired, the blades may be separated by slotted sheets of wax paper of the shape shown in Figure 5 to prevent contact between adjacent blades and to aid in preventing moisture from reaching the blades. These wax sheets are preferably slightly larger than the blades, as shown in Figure 5, in which a blade 8 is shown positioned between two waxed sheets 9. Sufficient blades, with or without waxed sheets therebetween, are stacked on the member 1 to almost but not quite reach the top of the tongue 4. The end 10 of the member 1 containing slot 7 is then folded over on top of the blades so that the slot 7 engages the top of tongue 4. The opposite end 11 of member 1 is then folded down on top of the end 10 and the complete assembly inserted in the outer cover 2. The positions of all the elements of the package when it has been filled and closed are clearly shown in the cross sectional view of Figure 3.

It should be particularly noted that the edges of the blades, supported as described by the tongue 4, are positively prevented from contacting the walls of the package. Thus, referring to Figure 4, it will be seen that the base 1 is of greater width than the blades to be packaged and that the edges of member 1 contact with the edges of the outer container 2. Obviously the member 1, because of its greater width, positively prevents the blades moving laterally into contact with the edges of member 2.

The provision of a slot in the end 10 of member 1 which folds down on top of the blades in the package is also most important as this slot engages the upper end of the tongue 4 and thus centers the tongue with respect to the sides of the cover 2. Even should the whole package be crushed so that it assumes the shape shown in dotted lines in Figure 4, the tongue 4 is at all times maintained by the slotted end 10 in parallel relation to the sides of the outer container 2, thus preventing the edges of the blades from contacting with the container.

Another practical advantage of the present container is that the removal of the blades therefrom is greatly simplified. Thus, the only operations necessary to obtain a blade from this package are, first, the removal of the inner member 1 from the cover 2, second, folding back the ends 11 and 10, and, third, lifting a blade from the stack surrounding the tongue 4.

I claim:  
A container for slotted razor blades comprising a base element of sheet material of width greater than the blades to be pack-

aged, a tab of sheet material extending perpendicularly from said base portion to engage with slots in blades to be packaged and retain them in position, one of the ends of said base element being extended to fold back flat against blades positioned on said tab and having a slot therein for receiving the upper edge of said tab and the other end of said base element being extended to fold back flat on top of said first end, said other end being substantially imperforate whereby it rests against the top edge of said tab projecting through said slot in said first end, and outer enclosing means for maintaining said ends flat against each other and against blades in the package.

Signed at Los Angeles, California this 14th day of November, 1931.  
HAZELHURST R. NOYES.

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