Aug. 13, 1968 T. J. SUZUKI 3,396,466

PROTECTOR FOR SAFETY RAZOR

Filed March 28, 1966

Fig. 1

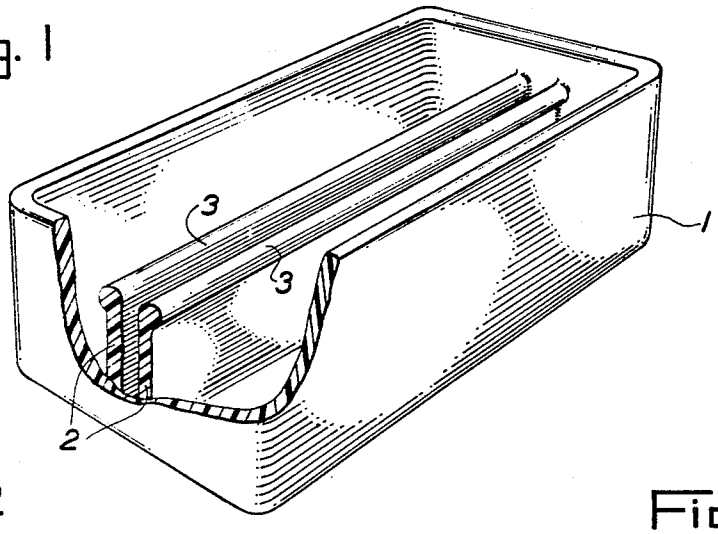


Fig. 2

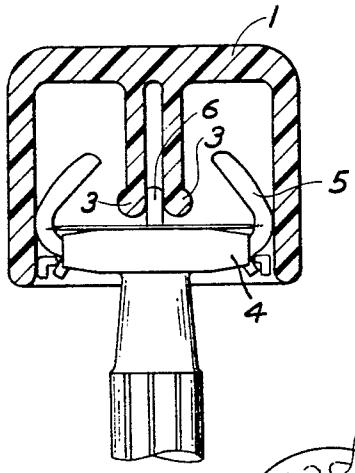


Fig. 3

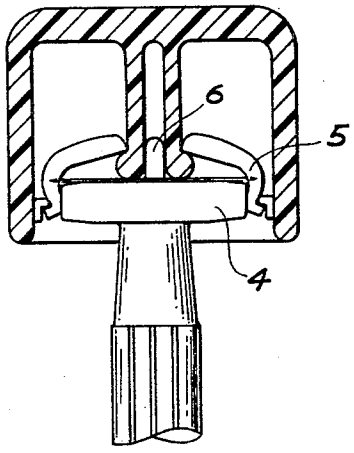
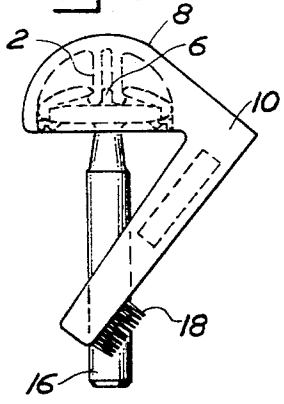


Fig. 5



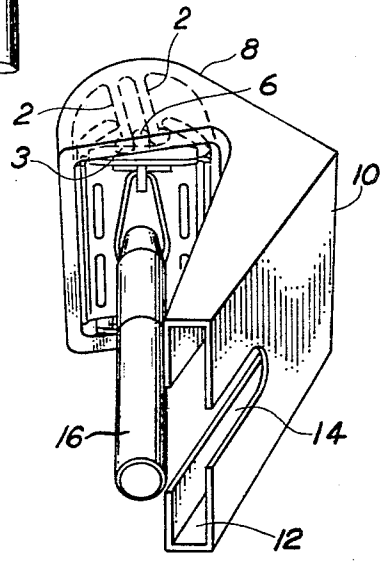


Fig. 4

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PROTECTOR FOR SAFETY RAZOR

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ABSTRACT OF THE DISCLOSURE

A protector for a safety razor wherein a removable protective cover is provided which is adapted to fit over the head of the razor. The cover has a pair of beaded flanges depending downwardly on the inside of the cover. The protector cover is placed on the razor head with the hinged cover plates of the razor head open and one of the flanges on each side of the razor centerpost. The hinged cover plates are then closed to bear on the beaded portion of the flanges and lock the protector cover in place. The protective cover may include a housing extension for holding spare blades which is grooved to allow the razor handle to hold the spare blades in place. The protective cover may also include a brush for cleaning the razor.

Background of the invention

This invention relates to a new protector cover for a safety razor head and to a novel razor and razor blade carrying case which incorporates the new protector cover. In particular, the invention relates to a protector cover which is economical and simple to manufacture and which is designed to be positively engaged and locked in position over a razor head when the razor is not in use. Also, the invention relates in particular to a carrying case which includes the protective cover and which permits storing of razor blades safely and conveniently.

Various safety razor protective covers and carrying cases have been proposed, but they all suffer from several disadvantages. Prior art covers and carrying cases have been bulky and relatively expensive to manufacture. In addition, the protective covers have not provided locking features to prevent accidental removal of the cover from the head by children or by inadvertent striking of the cover when engaged on the head. Also, prior art carrying cases are easily damaged and often break when used to transport a razor and blades.

The protective cover and carrying case of my invention on the other hand provides novel features heretofore unknown in the art. My invention provides a cover and carrying case which will last the lifetime of a razor and which occupies about half the volume of the present carrying cases and protective covers. The cover and case therefore are lighter and cheaper to manufacture.

In addition, the protective cover and case of my invention provide safe storage for both razor blades and the razor so that children cannot be injured by accidental contact with the device. In addition, my device has no moving parts and little likelihood of damage or breakage.

It is thus an object of my invention to provide a safety razor protective cover which is economical and simple to manufacture and which provides a positive locking feature to prevent accidental slippage of the cover off of a razor.

It is a further object of my invention to provide a carrying case for a safety razor and razor blade which incorporates the protective cover above mentioned and which provides for safe storage of a razor and razor blades.

Other objects of my invention will become apparent as it is more fully described hereinafter.

Summary of the invention

In a principal aspect, the invention takes the form of a protective cover to fit over a safety razor head. The cover is placed on the head with the blade retaining hinged cover plates in the open position and beaded flanges on the protective cover are disposed on each side of the razor centerpost. The cover plates are then closed on the beaded flanges to hold the protective cover in place.

In a second principal aspect, a housing is provided on the protective cover to hold spare blades. When the cover is held in place, the handle of the razor holds the spare blades in the housing.

According to another aspect of the invention, a brush is provided on the protective cover to provide for cleaning the razor head.

Brief description of the drawing

FIG. 1 is a perspective view showing the protective cover of my invention;

FIG. 2 is a side view in section showing the protective cover of my invention in partial engagement with a safety razor head to be protected;

FIG. 3 is a side view in section showing the protective cover of my invention fully engaged with a safety razor head to be protected;

FIG. 4 is a perspective view showing the carrying case of my invention incorporating the novel protective cover as well as the razor blade storage feature of my invention; and

FIG. 5 is a diagrammatic side view showing the carrying case in conjunction with a safety razor fully engaged therein and razor blades stored therein.

Description of the preferred embodiments

Referring to FIG. 1, the protective cover of my invention comprises a case **1** shaped to envelop a safety razor head of the type having a centerpost and hinged cover plates. The case may be made of any convenient material such as thermoplastic, e.g. polyethylene or polyvinylchloride, or sheet metal.

Disposed longitudinally along the inside top of case **1** are upstanding flanges **2** which define a groove into which the centerpost of the safety razor head will be inserted. The terminal edges of grooves **2** are beaded at **3** which beads serve as positive locking means in conjunction with the hinged cover plates of the razor head as described hereinafter.

Referring to FIG. 2, the razor to be protected is of the conventional type having a handle with a rotatable end for moving hinged cover plates and a head to which is secured hinged cover plates to hold down and enclose a double-edge razor blade. As shown in FIG. 2, the protective cover is used by slipping it over head **4** while hinged cover plates **5** are partially open so as to leave centerpost **6** free to accept flanges **2** and beads **3** thereover. Case **1** is then pushed down onto head **4** until beads **3** contact the base of head **4** which may or may not be supporting a razor blade. Hinged cover plates **5** are then closed as shown in FIG. 3 to contact beads **3** and urge case **1** downward. In this way case **1** is positively locked onto head **4** and can be removed only by loosening hinged cover plates **5** and raising them upwardly sufficiently so that beads **3** may pass between centerpost **6** and the outer edges of hinged cover plates **5**.

The second feature of my invention, shown in FIGS. 4 and 5, is a carrying case for a safety razor and razor blades which incorporate the novel protective cover above described. As can be seen from FIG. 4, the carrying case comprises a head cover section shown generally at **8** which encloses a pair of upstanding flanges **2** beaded at their

ends 3. A razor head is accommodated in cover section 8 as above described with respect to FIG. 2 and 3.

The carrying case further includes a blade holding section 10 which as shown in FIG. 4 is hollow and is adapted to accommodate one or more razor blades in the body portion thereof. The lower end 12 of blade holding section 10 is open for insertion or removal of blades either singly or preferably in a blade dispenser of some type. Section 10 is grooved at 14 to accommodate the handle of the safety razor which is to be stored. The handle, when engaged in groove 14, prevents removal of the blades stored in section 10. This insures that the blades cannot be inadvertently removed while the razor is stored in the carrying case.

FIG. 4 illustrates the relative positions of the safety razor and the carrying case while the razor is being inserted into the case. Note that flanges 2 are not yet engaged with center post 6 and will not engage the post until razor handle 16 is swung to the right and inserted in groove 14.

FIG. 5 shows a diagrammatic view of the carrying case and the razor when the razor is fully engaged in the case. A package of blades is shown diagrammatically in blade carrying section 10 and is restrained in the position shown by razor handle 16.

As shown in FIG. 5, my invention also contemplates providing a razor cleaning brush at the end of the carrying case as shown at 18. The cleaning brush may be made of the same pliable thermoplastic material as the carrying case. Alternatively, the cleaning brush may be disposed to project downwardly from the end of the carrying case.

The carrying case is preferably made of thermoplastic material such as polyethylene or polyvinylchloride and the case may be provided at its upper end with perforations to facilitate drying of the razor. The protective head cover of my invention, whether used by itself or in conjunction with the carrying case, may be employed when the razor contains a razor blade or when no razor blade is present in the head.

It should be clear to those skilled in the art that various modifications may be made to my invention within the scope thereof which I intend to be limited solely by the following claims.

I claim:

1. A carrying case for razor blades and for a safety razor of the type having a handle, a head, a blade-supporting center post and hinged cover plates, comprising (1) a head protecting section for fitting over and enclosing the head of said razor, said section having a pair of longitudinally extending flanges for engaging the center post of said razor, said flanges having beaded portions along their terimnal edges for positively engaging said hinged cover plates, and (2) a razor blade-holding section having an open ended hollow body for housing razor blades, said body being grooved at its lower end to accommodate the handle of said razor, whereby said handle prevents movement of blades housed in said hollow body.

2. A carrying case for razor blades and a safety razor of the type having a handle, a head, a blade-supporting center post and hinged cover plates, comprising (1) a head protecting section for fitting over the head of said razor, said section having a pair of flanges for engaging the centerpost of said razor, and (2) a razor blade-holding section extending downwardly from said head protecting section having an open ended hollow body for housing razor blades, said body being grooved to accommodate the handle of said razor when said razor is enclosed in said protecting section, whereby said handle prevents movement of blades out of said hollow body.

3. The carrying case of claim 2 wherein said flanges are beaded along their terminal edges.

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