

[54] **DISPOSABLE RAZOR**

[72] Inventor: **Gregorio A. Perez**, 1925 S.W. 3rd Street, Miami, Fla. 33156

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[51] Int. Cl. **B26b 21/06**, B26b 21/44, B65d 47/34

[58] Field of Search ... 30/32, 41, 41.5; 222/319, 386, 222/541

[56] **References Cited**

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Primary Examiner—Robert C. Riordon

Assistant Examiner—Gary L. Smith

Attorney—Lloyd J. Andres

[57] **ABSTRACT**

A disposable razor in which a blade is molded therein with the edge thereof projecting from the shaving head and including a telescopic handle over a stem which is secured central of the shaving head and having a coaxial bore in the stem including a quantity of shaving cream for projection through the bore from an outlet in the razor head when the handle is manually moved over the stem.

6 Claims, 6 Drawing Figures

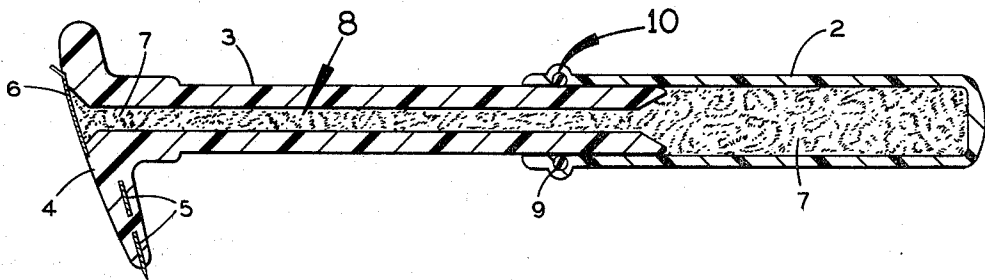


FIG. 1

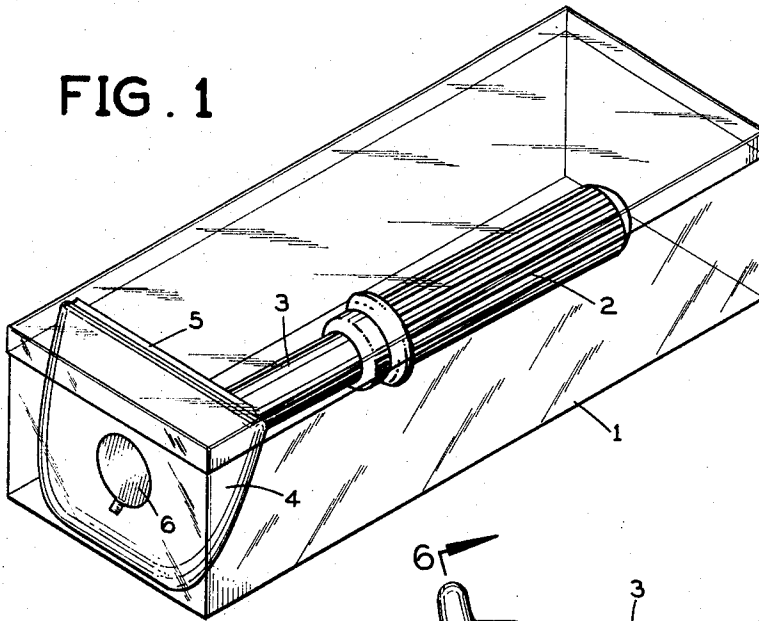


FIG. 3

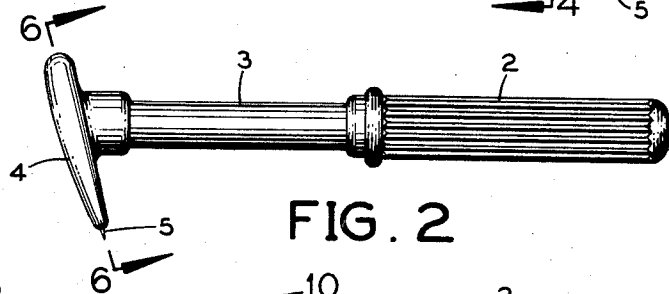
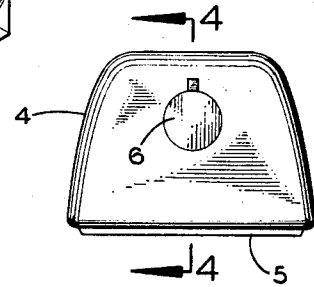


FIG. 2

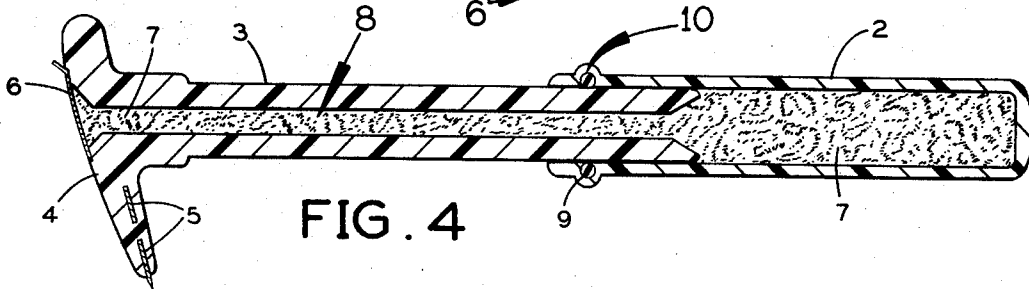


FIG. 4

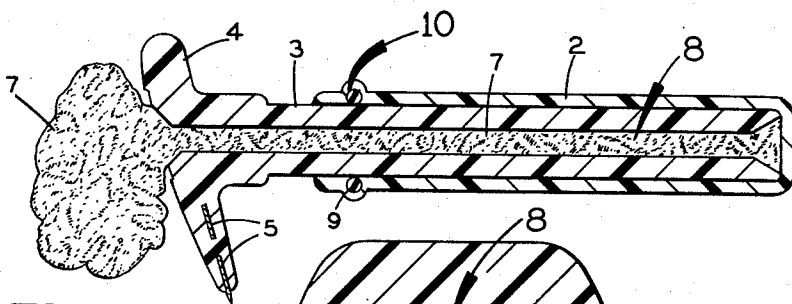


FIG. 5

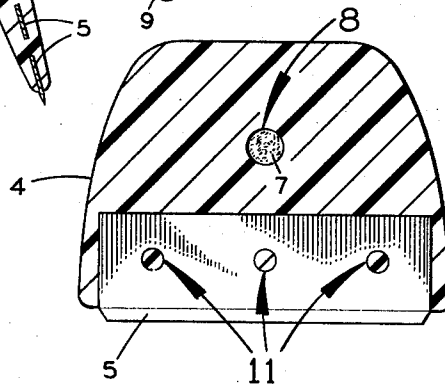


FIG. 6

INVENTOR.
GREGORIO A. PEREZ
BY *Lloyd J. Haines*

DISPOSABLE RAZOR

This invention relates in general to a disposable shaving razor which retains a quantity of shaving cream for manual dispensing.

A principal object of the invention is the provision of a plastic molded disposable razor which includes a blade secured therein and a quantity of shaving cream in the handle thereof to be manually dispensed by the telescopic movement of the handle over the central stem of the razor.

Another object of the invention is the provision of a bore through the stem over which the handle manually telescopes for dispensing desired amounts of shaving cream through an aperture in the head of the razor.

A further object of the invention is the provision of a pressure sensitive adhesive coated paper tab for contact with the surface of the head around the aperture for sealing the dispensing aperture prior to use of the razor.

These and other objects and advantages in one embodiment of the invention are described and shown in the following specification and drawing, in which:

FIG. 1 is a perspective front view of the razor positioned in a transparent plastic box.

FIG. 2 is a side elevation of the razor.

FIG. 3 is a front elevation of the razor shown in FIG. 2.

FIG. 4 is an enlarged cross sectional side elevation taken through section line 4—4, FIG. 3.

FIG. 5 is the same as FIG. 4 in changed position.

FIG. 6 is an enlarged front elevation taken through section line 6—6, FIG. 2.

Referring to FIG. 1, a typical transparent sheet plastic box 1 contains a disposable razor consisting of a handle 2, a stem 3, a head member 4, which parts are molded from plastic material such as polystyrene polyvinyl or other appropriate compound, as well as a blade 5, and a paper sealing tab 6 with a pressure sensitive adhesive on one side to seal the lather dispensing aperture when the razor is not in use.

Referring to FIGS. 2 and 3, the handle 2 is hollow and slidably retained on stem 3. The blade 5 has a sharpened straight edge molded in head member 4 and projecting a small distance from the lower straight arcuate edge of the head member, as shown, which provides the safety guard.

Referring to FIG. 5, the handle 2 is filled with a well known shaving cream 7 which is adapted to be dispensed through a bore 8 in the stem 3 and through the head member when the handle 2 is telescoped over the stem 3. Upon the removal of tab 6 the handle may be sequentially telescoped to project the shaving cream in desired quantities from the aperture in the head member 4, as illustrated.

To prevent leakage between the handle and the stem a groove is provided near the inner end of the handle for retaining an elastomer O-ring 9, which provides a slidable seal retained in groove 10 around the inner periphery of the handle 2. It is apparent that the groove for retaining an O-ring may be provided in the outer periphery of the outer end portion of the stem instead of in the handle, as shown.

FIG. 6 illustrates in cross section the head member 4 showing the three holes 11 in the blade 5 for filling with plastic material when the head member is molded for holding the blade in proper position with respect to the lower arcuate edge of the head member.

It is obvious that the blade may be securely positioned in the molding of the head member by using notches in the edges as a substitute for the holes 11, as shown, with equivalent results.

It is to be understood that certain modifications in construction are intended to come within the scope and teachings of the above specification.

Having described my invention, I claim:

1. A disposable razor having a plastic head member with a straight arcuate edge and a smooth face, a blade having a straight cutting edge molded in said head member with said cutting edge projecting a predetermined distance from said arcuate edge, a cylindrical stem of predetermined length integral with said head member and extending substantially midway from the side opposite said face, a substantially coaxial bore through said stem extending through said head member terminating in an outlet aperture in said face, a hollow handle of predetermined length having a closed outer end and a bore therein for slidable movement on said stem from an extended loaded position to a retracted empty position, a predetermined quantity of shaving lather in said bore of said handle when said handle is in its said extended position whereby the manual movement of said handle toward its said empty position will project said lather through said bore and dispense same from said aperture.

2. The construction recited in claim 1 wherein a paper tab having pressure sensitive adhesive on one side thereof is attached to the surface surrounding said aperture for sealing same when said handle is filled with said lather and the razor is not in use.

3. The construction recited in claim 1 wherein the said transverse head member molded to said stem is positioned at an angle corresponding to a predetermined acute angle of said blade with respect to the axis of said stem.

4. The construction recited in claim 1 including an annular groove in the inner periphery of the inner portion of the said handle,

an elastomer O-ring in said groove for sealing said stem to said handle when the latter is operated.

5. The construction recited in claim 1 including an annular groove in the outer periphery of the outer portion of said stem,

an elastomer O-ring in said groove for sealing said stem to said handle when the latter is operated.

6. The construction recited in claim 1 including a rectangular blade having a straight cutting edge and a plurality of spaced openings therein with said cutting edge extending from said arcuate edge a small predetermined distance and said distance secured by the molding of said plastic material in said openings in said blade.

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