United States Patent [19]

Samko

[11] **3,738,000**

[45] **June 12, 1973**

[54] **DISPOSABLE RAZOR**

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[21] Appl. No.: **167,166**

[52] **U.S. Cl.** **30/32**
[51] **Int. Cl.** **B26b 21/06**
[58] **Field of Search** 30/32, 64, 67, 68, 30/77, 346.58

[56] **References Cited**

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2,078,150	4/1937	Masip	30/77 X
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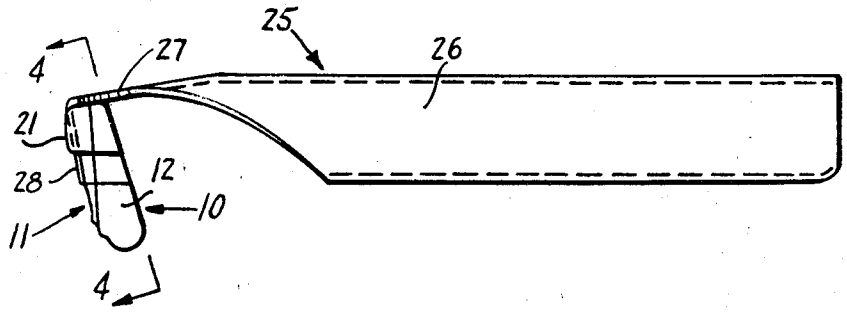
613,247	11/1948	Great Britain	30/68

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Assistant Examiner—Gary L. Smith
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[57] **ABSTRACT**

A disposable razor in which the razor blade is secured with cement into a two-piece head engaging the blade on opposite sides and including alignment pins which extend through the blade. A guard is integrally formed on one of the two pieces of the head and a handle is secured to the other piece.

6 Claims, 9 Drawing Figures



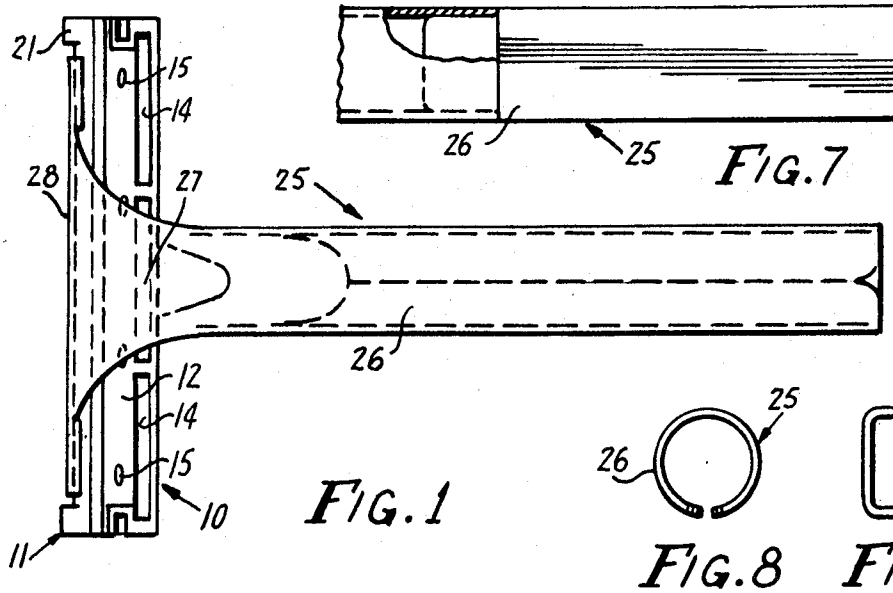


FIG. 1

FIG. 7

FIG. 8

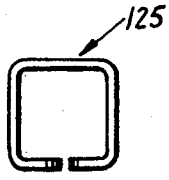


FIG. 9

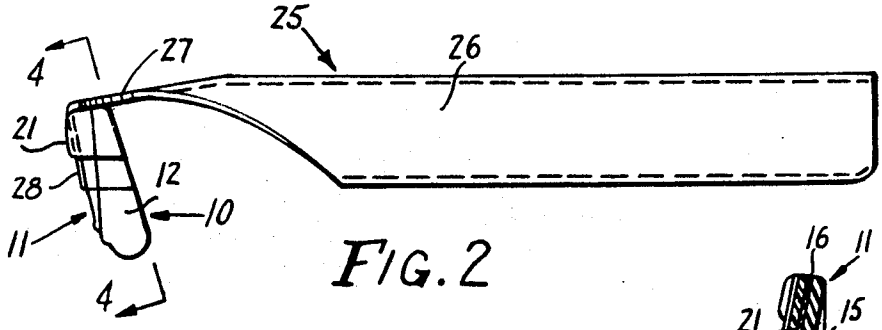


FIG. 2

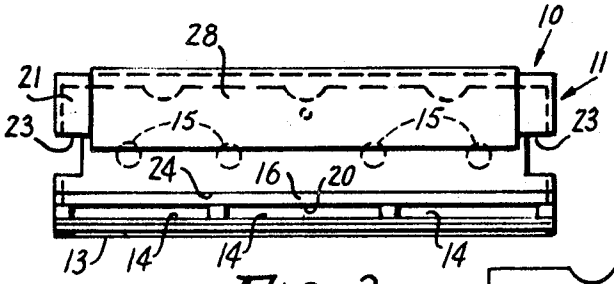


FIG. 3

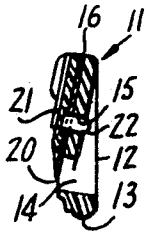


FIG. 6

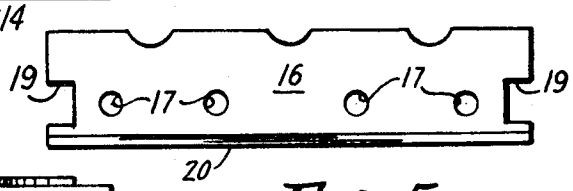


FIG. 5

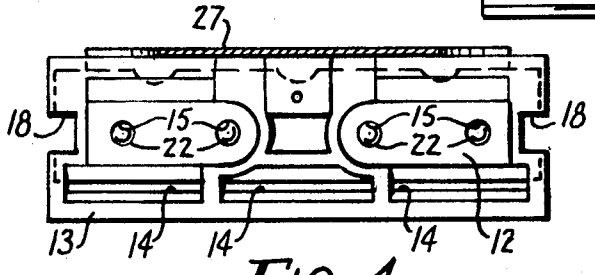


FIG. 4

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DISPOSABLE RAZOR

BACKGROUND OF THE INVENTION

Field of the Invention

The present invention relates to disposable razors and is an improvement on my prior U.S. Pat. No. 2,684,529 issued July 27, 1954 entitled Disposable Razor.

SUMMARY OF THE INVENTION

A disposable razor is provided with includes a razor blade cemented between the elements of a two-piece head secured to a handle. The blade is secured in the head and the head includes a guard to prepare the skin for the passage of the blade.

The primary object of the invention is to provide a disposable razor which is inexpensive to manufacture, simple to use and which is constructed to prevent skin injury due to contact with the corner or edges of the blade.

Other objects and advantages will become apparent in the following specification when considered in the light of the attached drawings.

FIG. 1 is a top plan view of the invention;

FIG. 2 is a side elevation of the invention;

FIG. 3 is a top plan view of the invention;

FIG. 4 is a vertical sectional view taken along the line 4—4 of FIG. 2 looking in the direction of the arrows;

FIG. 5 is an elevational view of the blade;

FIG. 6 is a transverse sectional view taken along the line 6—6 of FIG. 1 looking in the direction of the arrows;

FIG. 7 is a side elevation of the handle structure;

FIG. 8 is an end elevation of a circular handle; and

FIG. 9 is an end elevation of a rectangular handle structure.

DESCRIPTION OF THE PREFERRED EMBODIMENT

Referring now to the drawings in detail wherein like reference characters indicate like parts throughout the several figures the reference numeral **10** indicates generally a disposable razor constructed in accordance with the invention.

The disposable razor **10** includes a head generally indicated at **11** and the head **11** includes a blade support element **12** of generally rectangular form and having a guard **13** formed thereon with a plurality of aligned elongated slots **14** formed therein to permit the passage of hair therethrough.

The blade support **12** has a plurality of bores **15** extending perpendicularly therethrough for reasons to be assigned. A razor blade **16** is adapted to engage the blade support **12** and has a plurality of bores **17** extending perpendicularly therethrough and adapted for alignment with the bores **15**. The blade support **12** has generally rectangular notches **18** formed in the opposite end thereof for alignment with generally rectangular notches **19** formed in the opposite ends of the blade **16**. The blade **16** has a cutting edge **20** which is adapted to overlie the slots **14** when the blade **16** is in engagement with the blade support **12**.

A blade cover **21** of generally rectangular form is adapted to engage the upper surface of the blade **16** and has a plurality of alignment pins **22** extending perpendicularly therefrom to engage through the bores **17** of the blade **16** and through the bores **15** of the blade support **12**. The cover **21** has generally rectangular notches **23** formed in the opposite ends thereof for alignment with the notches **19** of the blade **16**. The cover **21** has an edge **24** arranged parallel to the cutting edge **20** of the blade **16** and the edge **24** is spaced away from the guard **13** and from the cutting edge **20** to permit the cutting edge **20** to be exposed sufficiently to allow shaving therewith.

A handle generally indicated at **25** includes a generally cylindrical hand engaging portion **26** which extends integrally from a generally flat neck portion **27**. A right angle extension **28** is integrally formed on the neck **27** for attachment to the cover **21** of the head **11**.

The blade support **12**, razor blade **16**, cover **21** and handle extension **28** are secured together by cement which secures the ends of the blade as well as the sides and back thereof. The construction of the blade support **12** protects the corners of the blade to prevent it from cutting or scratching the face while the structure of the blade support and the cover are such that the proper angle of the blade for the best shaving comfort is provided.

A modified handle for the razor **10** is indicated generally at **125** in FIG. **9** and includes a generally rectangular handle in transverse cross-section rather than the cylindrical handle indicated generally at **25**.

The handle **125** with the exception of its transverse cross-section is identical to the handle **25** in every respect.

The alignment notches **18, 19** and **23** are useful for aligning the elements of the razor **10** during machine assembly thereof.

Having thus described the preferred embodiments of the invention it should be understood that numerous structural modifications and adaptations may be resorted to without departing from the spirit of the invention.

I claim:

1. A disposable razor comprising a blade support, a blade mounted on said blade support, a guard on said blade support extending beyond said blade, a plurality of slots formed in said blade support underlying the cutting edge of said blade, a cover on said blade, a handle, a right angle extension on said handle engaged with said cover, and cement means securing said blade,said blade support, said guard, said cover, said handle, and said extensions together.

2. A device as claimed in claim **1** wherein said handle has a cylindrical cross-section.

3. A device as claimed in claim **1** wherein said handle has a generally rectangular cross-section.

4. A device as claimed in claim **1** wherein means are provided on said cover for holding said blade, said blade support and said cover in aligned relation.

5. A device as claimed in claim **4** wherein the means for holding includes a plurality of alignment pins formed on said cover, a plurality of bores formed in said blade, and a plurality of bores formed in said blade support with said pins extending through said bores in said blade and said bores in said blade support with said blade, said blade support and said cover in aligned relation.

6. A device as claimed in claim **1** wherein said handle, said blade support, and said cover are each formed of moldable plastic material.

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