June 4, 1957 R. F. MARSH ET AL 2,794,246

DISPOSABLE RAZOR

Filed Oct. 13, 1954

2 Sheets-Sheet 1

Fig. 1

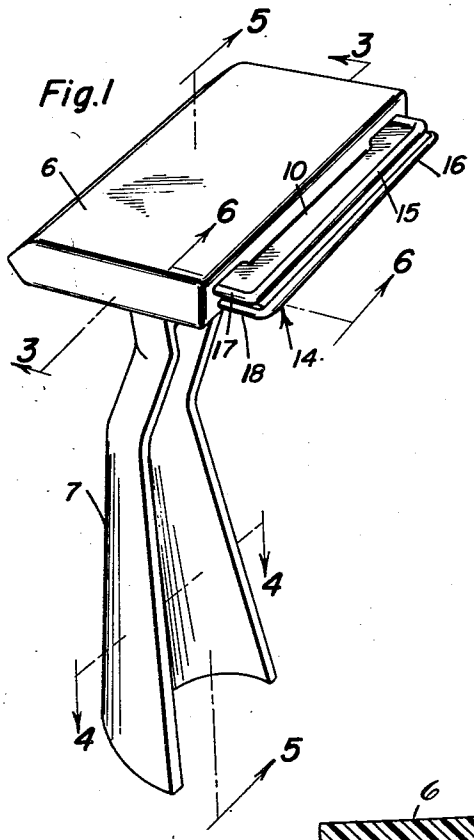


Fig. 4

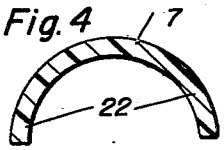


Fig. 7

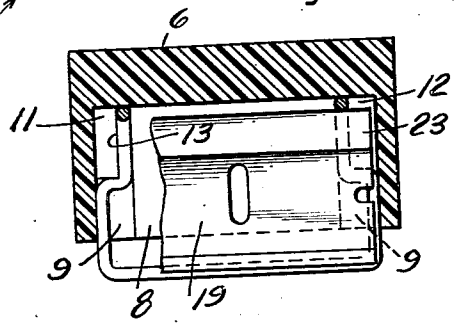
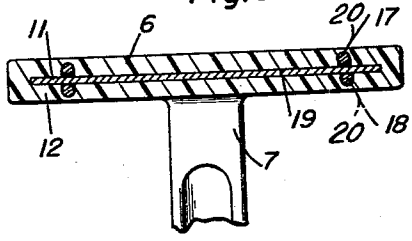


Fig. 3



Robert F. Marsh
Gary K. Agnew
INVENTORS

BY Clarence A. O'Brien and Harvey B. Jacobson
Attorneys

June 4, 1957 R. F. MARSH ET AL 2,794,246

DISPOSABLE RAZOR

Filed Oct. 13, 1954 2 Sheets-Sheet 2

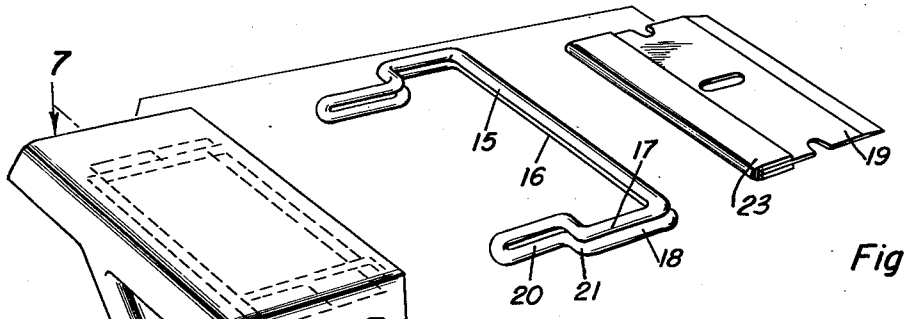
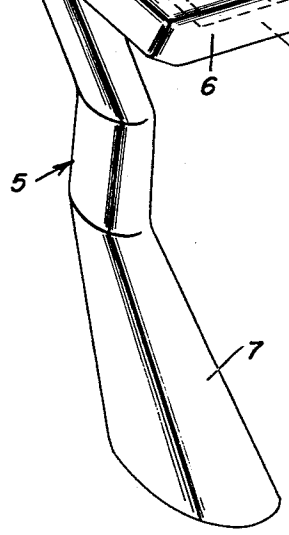


Fig. 2



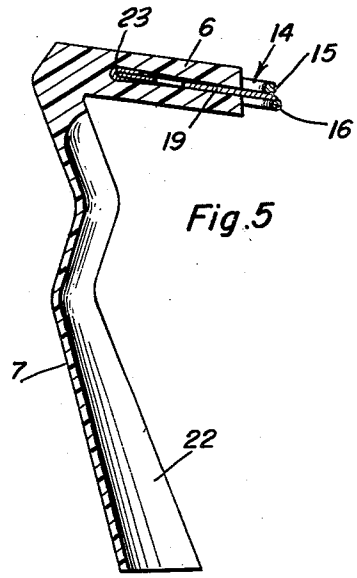


Fig. 5

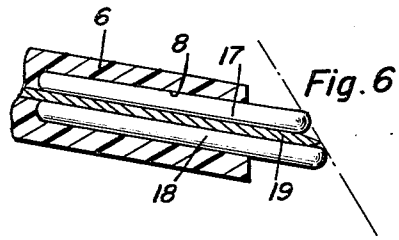


Fig. 6

Robert F. Marsh
Gary K. Agnew
INVENTORS

BY Clarence A. O'Brien and Harvey B. Jacobson
Attorneys

United States Patent Office

2,794,246

Patented June 4, 1957

2,794,246

DISPOSABLE RAZOR

Robert F. Marsh and Gary K. Agnew, Ann Arbor, Mich.

Application October 13, 1954, Serial No. 461,975

1 Claim. (Cl. 30—32)

The present invention relates to new and useful improvements in safety razors and more particularly to an inexpensively constructed razor which may be discarded and disposed of after a single use or after the blade has served its usefulness.

An important object of the invention is to provide a safety razor having an integrally constructed head and handle and forming the head with a recess in which the rear edge of a guard and blade are permanently secured to support the front of the guard and blade in a forwardly projecting shaving position.

Another object is to construct the head and handle of plastic material to simplify assembling the guard and blade in the recess thereof by fusing, cementing or pressing the walls of the recess in friction gripping engagement with the guard and blade in a permanently anchored position in the head.

A further object is to provide a disposable safety razor of simple and practical construction, which is efficient, safe and dependable in use, relatively inexpensive to manufacture and otherwise well adapted for the purpose for which the same is intended.

These together with other objects and advantages which will become subsequently apparent reside in the details of construction and operation as more fully hereinafter described and claimed, reference being had to the accompanying drawings forming a part hereof, wherein like numerals refer to like parts throughout, and in which:

Figure 1 is a perspective view;

Figure 2 is a group perspective view;

Figures 3 to 6, inclusive, are sectional views taken respectively on the lines 3—3, 4—4, 5—5 and 6—6 of Figure 1; and

Figure 7 is a sectional view taken on a line 7—7 of Figure 2.

Referring now to the drawings in detail, wherein for the purpose of illustration, we have disclosed a preferred embodiment of our invention, the numeral 5 designates the safety razor generally and which is constructed of plastic or other suitable inexpensive molded material to provide an integrally formed head 6 and handle 7.

Head 6 is of solid flat construction and projects laterally at the front end of the handle, preferably at an acute angle with respect thereto. The front edge of the head is formed with an elongated recess 8 formed with grooves 9 at the sides of the recess and parallel to the side edges of the head. The grooves form restricted portions 10 at the center of the recess and vertically spaced apart upper and lower lugs 11 and 12 are formed in the recess at the rear side portions of the latter to restrict the rear portion of the grooves, as shown at 13.

A wire guard 14 of substantially U-shape is formed of upper and lower transverse guard bars 15 and 16 and upper and lower pairs of rearwardly projecting parallel side bars 17 and 18 which are united at their rear ends to adjacent side bars and the bars are sufficiently resilient to form a pair of jaws for clamping a razor blade 19 between the bars and with the front edge of the blade held in shaving position between and parallel to the transverse bars 15 and 16. Upper transverse bar 15 is preferably positioned slightly rearwardly of the front edge of the blade, while the lower bar 16 is substantially flush with the blade, as shown in Figure 6, to support the blade in effective shaving position and with the danger of cutting the skin reduced to a minimum.

The side bars 17 and 18 are formed with laterally inwardly offset extensions 20 to form shoulders 21 in the side bars and the side bars are adapted to enter the grooves 9 at the sides of the recess 8 to position the assembled guard and blade therein and the extensions 20 enter the restricted rear portions 13 of the grooves. The upper and lower bars of the extensions 20 of guard 14 are spaced from each other sufficiently to accommodate the reinforcing channel 23 provided at the rear edge of the blade 19.

The assembled guard and blade may be permanently secured in the recess in any suitable manner, such as by fusing the front edge of the head to seal the recess, or by cementing the guard and blade in the recess, or by pressing the top and bottom of the head together to frictionally clamp the guard and blade in the recess.

Handle 7 is of channel construction of relatively thin material to reduce the cost of manufacture of the razor and which is strengthened by the flanges 22 of the channel.

The razor may be used for a single shaving or for the life of the blade and may then be disposed of.

From the foregoing, the construction and operation of the device will be readily understood and further explanation is believed to be unnecessary. However, since numerous modifications and changes will readily occur to those skilled in the art, it is not desired to limit the invention to the exact construction shown and described, and accordingly, all suitable modifications and equivalents may be resorted to, falling within the scope of the appended claim.

What is claimed as new is as follows:

A safety razor comprising a handle having a flat head projecting laterally in front of the handle, said head having a recess in its front edge and formed with a pair of grooves each parallel to an adjacent side edge of the head, and a guard composed of a pair of U-shaped wire jaws positioned one above the other and adapted for clamping a blade therebetween, said guard including a pair of parallel double side bars adapted for insertion in said grooves of the recess to support the guard and blade therein and a pair of transverse bars positioned at the front of the head in confronting clamping engagement respectively on top of and under the cutting edge of the blade.

References Cited in the file of this patent

UNITED STATES PATENTS

2,306,890	Mayeux	Dec. 29, 1942
2,345,492	Miller	Mar. 28, 1944
2,349,252	Douglass	May 23, 1944