

Jan. 8, 1957

W. M. MERCER

2,776,478

YIELDABLE BLADE SAFETY RAZOR

Filed Nov. 3, 1953

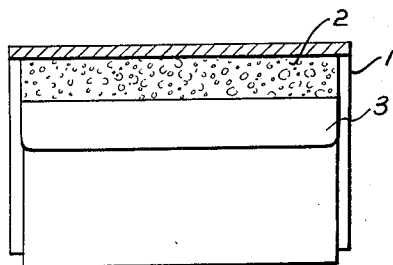


Fig. 1

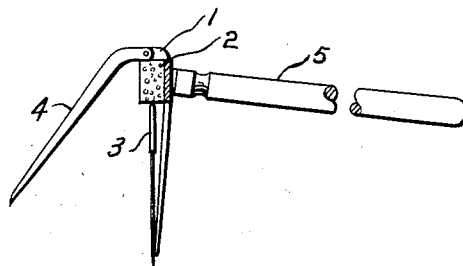


Fig. 2

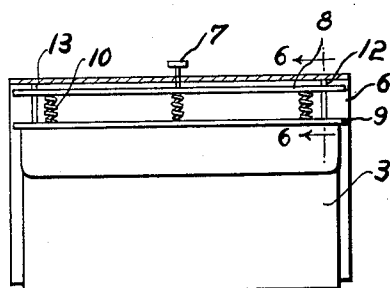


Fig. 3

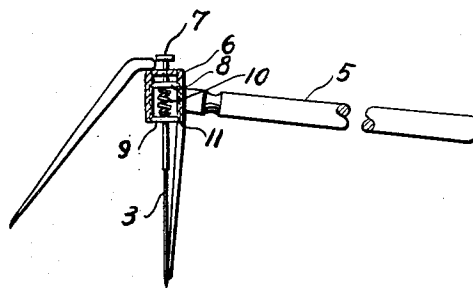


Fig. 4

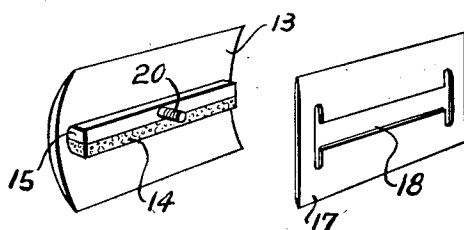


Fig. 5

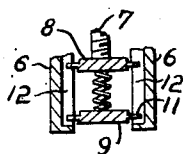
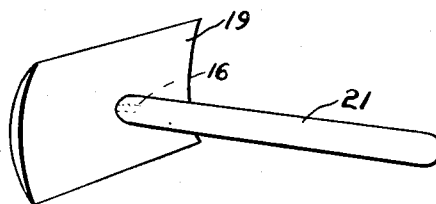


Fig. 6



INVENTOR.
William M. Mercer
BY *Ramuel O. Wyatt*
Attorney

1

2,776,478

YIELDABLE BLADE SAFETY RAZOR

William M. Mercer, Houston, Tex.

Application November 3, 1953, Serial No. 389,987

3 Claims. (Cl. 30-61)

This invention relates to new and useful improvements in a safety razor.

It is an object of this invention to provide a razor that will maintain the cutting blade thereof in yieldable relation with the holder, so that upon encountering tough beards, or the like, the blade will recede into blade holder and thus preventing pulling the beard, or cutting the face of the user.

It is another object of the invention to provide a razor that will maintain the cutting blade in yieldable position, and that will provide means for adjusting the tension on the blade.

It is still another object of the invention to provide a razor that will maintain the blade yieldable against pressure in one direction and rigid against pressure in the other direction in the same holder.

With the above and other objects in view, the invention has relation to certain novel features of construction and operation more particularly set out in the following specifications and illustrated in the accompanying drawings, wherein:

Figure 1 is a side elevational view, in cross section, of one form of the invention.

Figure 2 is an end view of the view shown in Figure 1.

Figure 3 is an elevational view, in cross section, of another form of the invention.

Figure 4 is an end view taken from the view shown in Figure 3.

Figure 5 is an elevational view, in perspective, of another form of the invention.

Figure 6 is an elevational end view, in cross section.

Referring now more particularly to the drawings, the numeral 1 designates a holder having a strip of resilient material, such as sponge rubber, secured to the upper portion thereof in any suitable manner, such as by an adhesive. A single edge razor blade will be received by the holder 1, and its upper edge will bear against the strip 2, the blade 3 being maintained in position by the hinged cover member 4. The conventional handle will be mounted on the holder, as 5. When a tough beard, or the like, is encountered, the blade 3 will bear against the strip 2, and will recede into the holder members 1, 4, out of cutting relation.

In the form shown in Figures 3 and 4, the holder 6 has an adjusting screw 7 mounted in the top thereof, which bears against the plate 8. A similar plate 9 is mounted in the holder 6 beneath the plate 8, and is separated therefrom by the coil springs 10. Suitable studs project from

2

the plates 8, 9, such as the studs 11, 11, and fit into suitable grooves as 12, 13 formed in the holder 6, which maintain the plates 8, 9 in horizontal alignment. In this form of the invention, the blade 3 bears against the plate 9, and the pressure on the blade 3 may be adjusted by the screw 7.

In the form shown in Figure 5, the holder 13 is for a double edge blade, and has a rigid bar 15 on which the resilient bar 14, such as sponge rubber, is mounted. The double edge blade 17 is provided with a wide opening 18 to fit over both the rigid bar 15 and the resilient bar 14. The holder member 13 is provided with a stud 20, having suitable threads thereon, to be received by the internally threaded port 16 in the holder member 13. The conventional handle 21 is mounted on the holder member 19. When the user desires a resilient blade in this form of the invention, the side having the strip 14 is used, and when a rigid blade is desired, the opposite side is used.

When a blade becomes dull, and would otherwise cause a poor, and possibly painful, shave, the blade will recede into the holder, and will not cut either the beard or the skin of the user, thus indicating to the user that a new blade is required.

While the foregoing is considered preferred forms of the invention, it is by way of illustration only, the broad principle of the invention being defined by the appended claims.

What I claim is:

1. In a razor, a blade holder adapted to receive a single edge blade, a pair of parallel bars mounted in said holder, said bars being spaced apart by a plurality of yieldable means, means for varying the pressure on said yieldable means, and means for yieldably maintaining said bars in longitudinal alignment, and means for maintaining a single edge blade in said holder in abutting relation with one of said bars.

2. In a razor, a blade holder, transverse grooves in said holder, a pair of longitudinal bars mounted in said holder, means for maintaining said bars in longitudinal alignment and means for maintaining said bars in yieldable spaced relation, a single edge razor blade in said holder, and means for maintaining said blade in yieldable contact with said bars.

3. In a razor, a blade holder adapted to receive a single edge blade, a pair of parallel bars mounted in said holder, and said holder having transverse grooves therein, projections on said bars extending into said grooves maintaining said bars in longitudinal alignment, yieldable means between said bars maintaining said bars in spaced relation, a single edge razor blade in said holder having its reinforced edge bearing against one of said yieldable bars.

References Cited in the file of this patent

UNITED STATES PATENTS

690,380	Turner	Dec. 31, 1901
1,074,126	Lochman	Sept. 30, 1913
2,311,913	Testi	Feb. 23, 1943

FOREIGN PATENTS

190,390	Germany	Nov. 13, 1906
43,674	Switzerland	Feb. 15, 1908
530,102	Great Britain	Dec. 4, 1940