April 16, 1935. C. D. McDOWELL 1,998,200

SAFETY RAZOR

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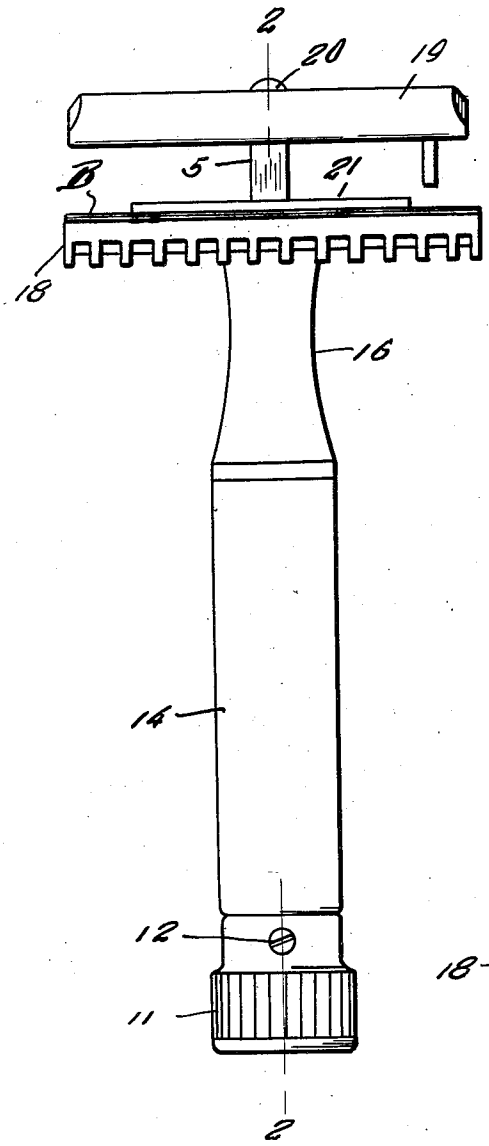


Fig. 1.

Fig. 5.

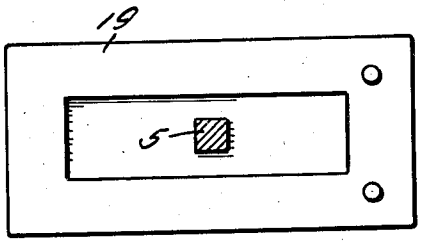
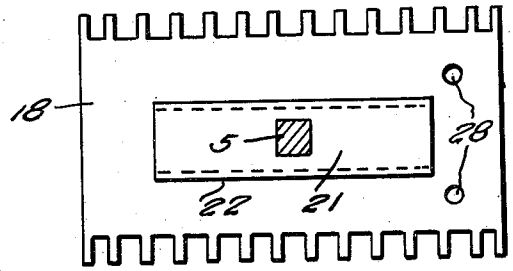


Fig. 6.



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Fig. 2.

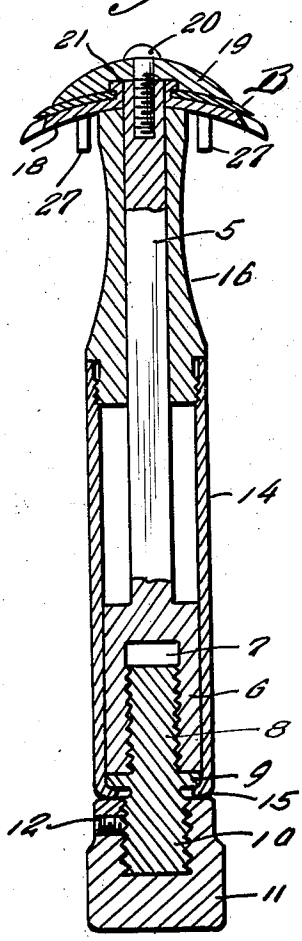
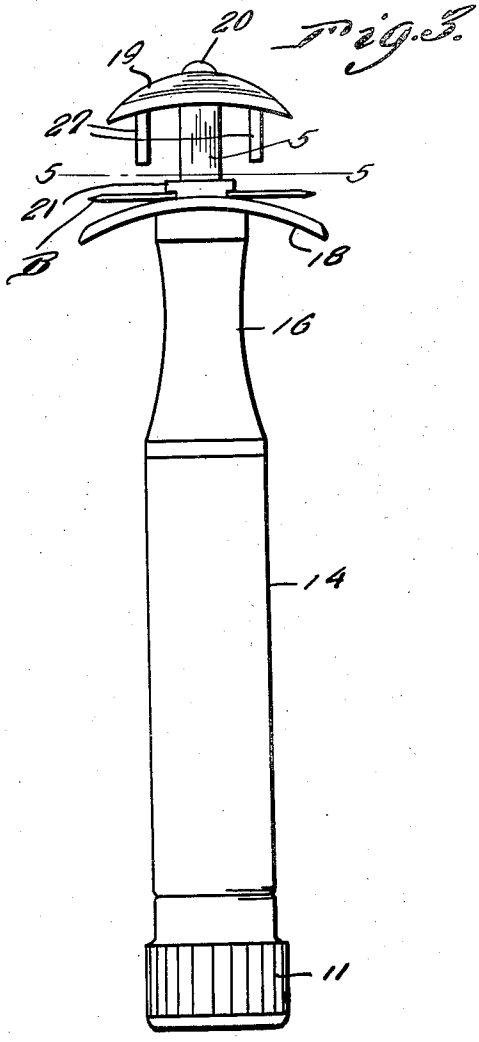


Fig. 3.



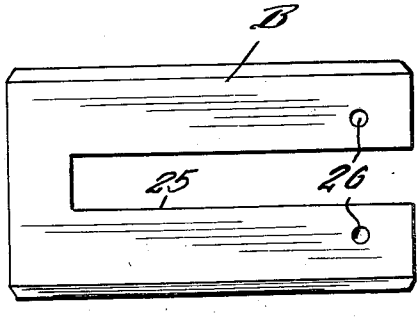


Fig. 4.

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UNITED STATES PATENT OFFICE

1,998,200

SAFETY RAZOR

Clell D. McDowell, Erwin, N. C.

Application June 5, 1934, Serial No. 729,143

4 Claims. (Cl. 30—12)

The present invention relates to a safety razor and has for its object to provide a device of this nature which is simple in its construction, capable of being easily assembled and disassembled with respect to its various parts, inexpensive to manufacture, easy to manipulate, thoroughly efficient and reliable in use and otherwise well adapted to the purpose for which it is designed.

With the above and numerous other objects in view as will appear as the description proceeds, the invention consists in certain novel features of construction, and in the combination and arrangement of parts as will hereinafter be more fully described and claimed.

In the drawings:

Figure 1 is a side elevation of a razor embodying the features of my invention.

Figure 2 is a sectional view taken substantially on the line 2—2 of Figure 1 but showing the clamp plate closed against the blade on the guard plate,

Figure 3 is a side elevation taken at right angles to that shown in Figure 1.

Figure 4 is a plan view of the blade.

Figure 5 is a sectional view taken substantially on the line 5—5 of Figure 3 looking upwardly.

Figure 6 is a similar view looking downwardly showing the blade removed.

Referring to the drawings in detail it will be seen that the numeral 5 denotes an elongated shank enlarged at one end as at 6 and having an interiorly threaded bore 7 in said enlarged end. An externally threaded member 8 is engaged in said bore 7 and intermediate its ends has an annular outwardly projecting flange 9 engaging the lower or outer end of the enlarged end 6 and the member 8 merges into an externally threaded portion 10 for the reception of an internally threaded cap 11 adapted to be locked in place by a set screw 12. A tubular member 14 is rotatably mounted over the enlarged end 6 and has one end turned in to provide a flange 15 to engage between the cap 11 and the flange 9. A sleeve 16 has one end threadedly engaged in the upper end of the tube 14. A guard plate 18 is received on the upper end of the shank 5 to rest against the upper end of the sleeve 16. A clamp plate 19 is engaged on the shank 5 by a screw 20 for cooperating with the guard plate 18 to hold a blade thereon in proper shaving relationship. A bead 21 extends longitudinally of the guard plate 18 and has overhanging portions 22. A blade B is provided with a slot 25 extending from adjacent one end through the other end thereof and adjacent said other end, on opposite sides of the slot 25, is provided with openings 26. The clamp plate 19 has pins 27 which are adapted to pass through the openings 26 and similar openings 28 in the guard plate 18. The blade is slid from one end so that the edges of the slot 25 are disposed under the overhanging edges 22 of the bead 21. By turning the cap 11, the shank 5 is moved longitudinally of the sleeve 16 and the casing 14, the casing 14 being threadedly engaged with the sleeve 16, so that the clamping plate 19 may be disposed in open position as shown in Figures 1 and 3 or in closed or clamping position as shown in Figure 2 as will be quite apparent.

It is thought that the construction, operation, utility and advantages of this invention will now be quite apparent to those skilled in this art without a more detailed description thereof.

The present embodiment of the invention has been described in considerable detail merely for the purposes of exemplification since in actual practice it attains the features of advantage enumerated as desirable in the statement of the invention and the above description.

It will be apparent that changes in the details of construction, and in the combination and arrangement of parts may be resorted to without departing from the spirit or scope of the invention as hereinafter claimed or sacrificing any of its advantages.

Having thus described my invention, what I claim as new is:

1. A safety razor of the class described comprising a sleeve, a shank slidable in the sleeve, a guard plate on the shank resting against one end of the sleeve, a clamp plate fixed to the adjacent end of the shank for cooperation with the guard plate in holding a blade therebetween, a tube fixed to the other end of the sleeve and disposed about the shank, the other end of the shank being enlarged and having an internally threaded bore, an externally threaded member in the bore having an external annular flange intermediate its ends and also having an externally threaded extension, a cap engaged on the extension, a set screw holding the cap on the extension, and said tube having a terminal internally disposed annular flange between the flange on said member and said cap.

2. A safety razor of the class described comprising a sleeve, a shank slidable in the sleeve, a guard plate on the shank resting against one end of the sleeve, a clamp plate fixed to the adjacent end of the shank for cooperation with the guard plate in holding a blade therebetween, a tube

fixed to the other end of the sleeve and disposed about the shank, the other end of the shank being enlarged and having an internally threaded bore, an externally threaded member in the bore having an external annular flange intermediate its ends and also having an externally threaded extension, a cap engaged on the extension, a set screw holding the cap on the extension, and said tube having a terminal internally disposed annular flange between the flange on said member and said cap, the clamp plate having pins projecting therefrom through openings in the guard plate.

3. A safety razor of the class described comprising a sleeve, a shank slidable in the sleeve, a guard plate on the shank resting against one end of the sleeve, a clamp plate fixed to the adjacent end of the shank for cooperation with the guard plate in holding a blade therebetween, a tube fixed to the other end of the sleeve and disposed about the shank, the other end of the shank being enlarged and having an internally threaded bore, an externally threaded member in the bore having an external annular flange intermediate its ends and also having an externally threaded extension, a cap engaged on the extension, a set screw holding the cap on the extension, and said tube having a terminal internally disposed annular flange between the flange on said member and said cap, the clamp plate having pins projecting therefrom through openings in the guard plate, and a blade having openings to receive the pins.

4. A safety razor of the class described comprising a sleeve, a shank slidable in the sleeve, a guard plate on the shank resting against one end of the sleeve, a clamp plate fixed to the adjacent end of the shank for cooperation with the guard plate in holding a blade therebetween, a tube fixed to the other end of the sleeve and disposed about the shank, the other end of the shank being enlarged and having an internally threaded bore, an externally threaded member in the bore having an external annular flange intermediate its ends and also having an externally threaded extension, a cap engaged on the extension, a set screw holding the cap on the extension, and said tube having a terminal internally disposed annular flange between the flange on said member and said cap, the clamp plate having pins projecting therefrom through openings in the guard plate, and a blade having openings to receive the pins, said blade having a slot extending from adjacent one end through the other end thereof, and said guard plate having a bead with overhanging longitudinal edges under which the edges of the slot engage.

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