May 3, 1955 F. CALABRETTA 2,707,326

SAFETY RAZOR

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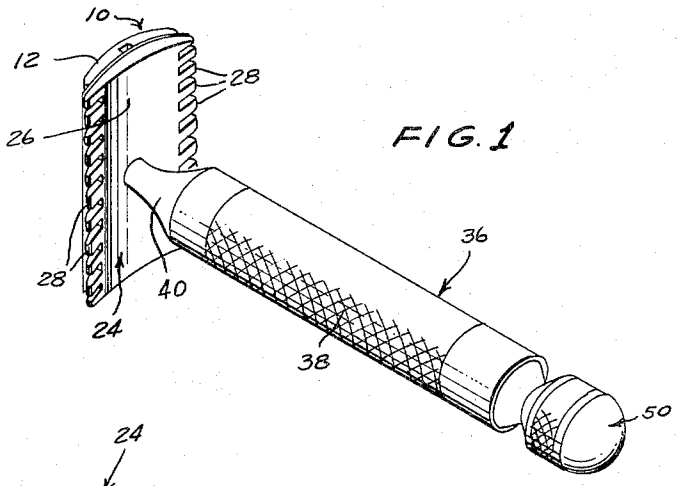


FIG. 1

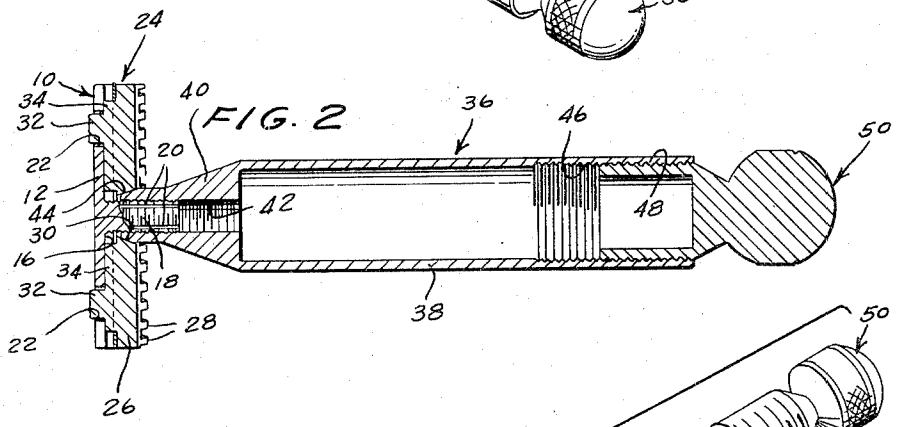


FIG. 2

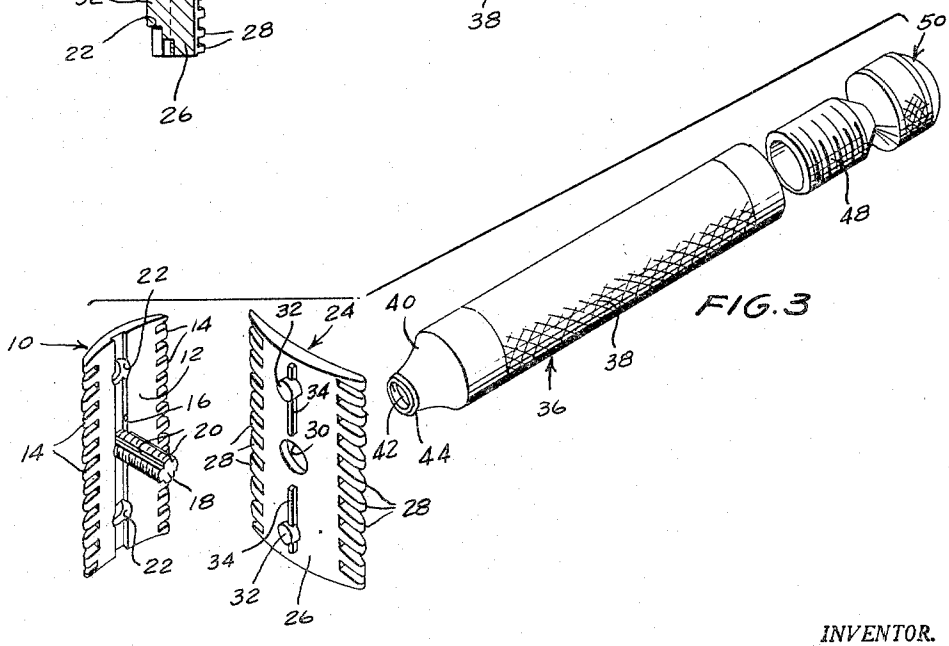


FIG. 3

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SAFETY RAZOR

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2 Claims. (Cl. 30—41)

This invention relates to a safety razor and has for its primary object to prolong the useful life of razor blades.

Another object is to force a lubricant to the cutting surface of the blade contained in the razor to prevent the formation of rust on the blade.

The above and other objects may be attained by employing this invention which embodies among its features a transversely curved head having a groove extending longitudinally therethrough and opening through the concave side of the head, an externally screw threaded stud carried by the head and extending perpendicularly therefrom adjacent the concave side thereof, said stud having circumferentially spaced channels extending longitudinally therethrough and communicating with the groove, a transversely curved blade clamping plate having an opening extending therethrough for receiving the stud, a hollow handle having an internally screw threaded opening extending through one end and communicating with the interior thereof for threadedly receiving the stud and advancing the handle into engagement with the clamping plate, and a plug removably engaged with the end of the handle remote from the threaded opening for extruding lubricant contained in the handle into the channels and groove.

Other features include having openings extending through the head and communicating with the groove on opposite sides of the stud, lugs carried by the blade clamping plate and extending outwardly from the convex side thereof on opposite sides of the opening therein for entrance into the openings in the head, elongated longitudinally spaced longitudinally extending ribs carried by the clamping plate and extending outwardly from the convex side thereof on opposite sides of the opening therein for partially filling the groove and restricting the passage of lubricant therethrough.

In the drawings:

Figure 1 is a perspective view of a razor embodying the features of this invention;

Figure 2 is a longitudinal sectional view through the assembled razor; and

Figure 3 is an exploded perspective view of the razor parts.

Referring to the drawings in detail, a head designated generally **10** comprises a transversely curved body **12** having conventional teeth **14** projecting from opposite side edges thereof. Formed in the head and extending longitudinally therethrough is a groove **16** which opens through the concave face of the head and carried by the head and projecting outwardly from the concave side thereof is an externally screw threaded stud **18** which is provided with circumferentially spaced channels **20** which communicate with the groove **16**, as will be readily understood upon reference to the drawings. Extending through the body **12** of the head **10** on opposite sides of the stud **18** are openings **22** which communicate with the groove, as will be readily understood upon reference to Figure 3.

A blade clamping plate designated generally **24** comprises a transversely curved body **26** carrying adjacent

opposite longitudinal side edges outwardly extending teeth **28** such as those carried by a guard or pressure plate of a conventional safety razor. Extending through the guard or pressure plate **24** substantially midway between opposite ends thereof is a tapered opening **30**, the wall of which converges as it approaches the convex side of the body **26**, and carried on the convex side of the body **26** in longitudinally spaced relation to the opening **30** are lugs **32** which, as illustrated in Figure 2, are received in the openings **22** in the head **10** when the parts are assembled. Longitudinally spaced longitudinally extending ribs **24** are carried by the convex side of the body **26** of the clamping plate **24** and these ribs are adapted to enter the groove **16** when the parts are assembled to form constrictions in said groove which will prevent the lubricant from flowing too freely through the groove.

A handle designated generally **36** comprises a hollow cylindrical body **38** carrying adjacent one end a longitudinally extending nozzle **40** which is provided with an internally screw threaded opening **42** adapted to threadedly engage the stud **18** to detachably connect the handle **36** to the head **10**. A conical extension **44** is carried by the nozzle **40** remote from the handle **36** and is adapted to enter the conical opening **30** in the clamping plate **24** so that as the handle **36** is rotated on the stud **18**, the clamping plate **24** will be advanced toward the head **10** while a fluid-tight junction is established between the clamping plate and the handle. As illustrated in Figure 2, the internally screw threaded opening **42** communicates with the interior of the handle **36** so that lubricant contained in the handle may be extruded through the opening **42** and the channels **20** and groove **16** on to the head **10** to be distributed over the surface of a razor blade mounted thereon. Carried by the handle **36** adjacent the end thereof remote from the nozzle **40** are internal screw threads **46** with which are engaged the external screw threads **48** of a plug designated generally **50** which not only closes the end of the tubular body **38** remote from the nozzle **40** but also serves to force lubricant contained within the body **38** through the opening **42** to be extruded from the handle **36** through the channels **20** and into the groove **16**.

In use, it will be evident that when the handle **36** is filled with lubricant such as petroleum jelly, the plug **50** may be turned within the handle **36** to extrude the lubricant through the passage **42** and into the groove **16** through the channels **20**. The lubricant finding its way between the head **10** and a razor blade clamped in place by the clamping plate **24** will serve to lubricate the edges of the blade and inhibit the formation of rust on the blade.

While in the foregoing there has been shown and described the preferred embodiment of this invention, it is to be understood that minor changes in the details of construction, combination and arrangement of parts may be resorted to without departing from the spirit and scope of the invention as claimed.

What is claimed is:

1. A safety razor comprising a transversely curved head having a groove extending longitudinally therethrough and opening through the concave side of said head, an externally screw threaded stud carried by the head and extending perpendicularly therefrom adjacent the concave side thereof, said stud having circumferentially spaced channels extending longitudinally therethrough and communicating with the groove, said head having openings extending therethrough and communicating with the groove on opposite sides of the stud, a transversely curved blade clamping plate having an opening extending therethrough for receiving the stud, lugs carried by the blade clamping plate and extending outwardly from the convex side thereof on opposite sides of the opening therein for entrance into the openings in

the head, a hollow handle having an internally screw threaded opening extending through one end and communicating with the interior thereof for threadedly receiving the stud and advancing the handle into engagement with the clamping plate, and a plug removably engaged with the handle adjacent the end thereof remote from the internally screw threaded opening for extruding lubricant contained in the handle into the channels and the groove.

2. A safety razor comprising a transversely curved head having a groove extending longitudinally therethrough and opening through the concave side of said head, an externally screw threaded stud carried by the head and extending perpendicularly therefrom adjacent the concave side thereof, said stud having circumferentially spaced channels extending longitudinally therethrough and communicating with the groove, said head having openings extending therethrough and communicating with the groove on opposite sides of the stud, a transversely curved blade clamping plate having an opening extending therethrough for receiving the stud, lugs carried by the blade clamping plate and extending outwardly from the convex side thereof on opposite sides of the

opening therein for entrance into the openings in the head, a hollow handle having an internally screw threaded opening extending through one end and communicating with the interior thereof for threadedly receiving the stud and advancing the handle into engagement with the clamping plate, a plug removably engaged with the handle adjacent the end thereof remote from the internally screw threaded opening for extruding lubricant contained in the handle into the channels and the groove, and elongated longitudinally spaced longitudinally extending ribs carried by the clamping plate and extending outwardly from the convex side thereof on opposite sides of the opening therein for partially filling the groove and restricting the passage of lubricant therethrough.

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