Sept. 10, 1946. R. F. ROBERTS 2,407,516

SAFETY RAZOR

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FIG. 1

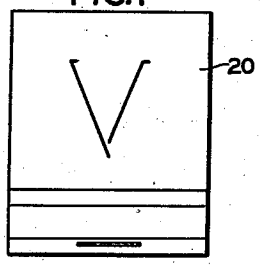


FIG. 2

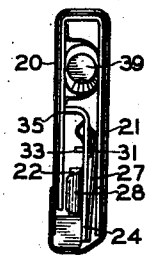


FIG. 3

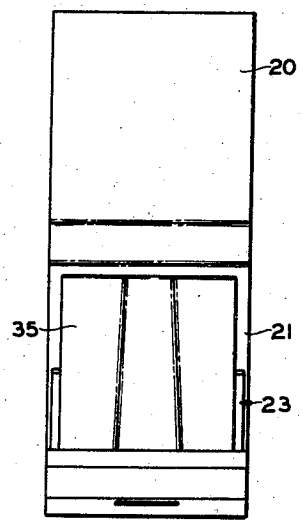


FIG. 4

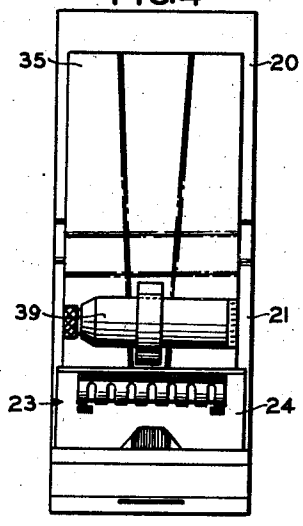


FIG. 5

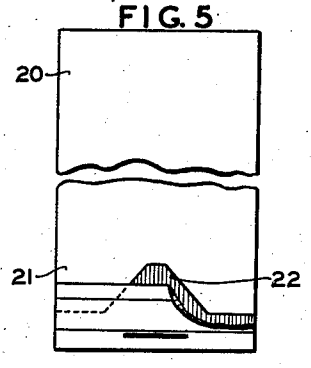
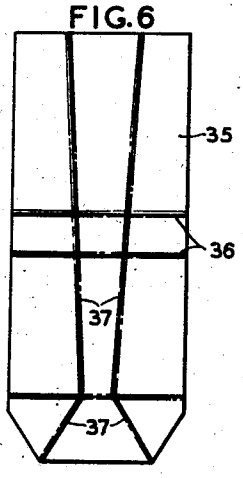


FIG. 6



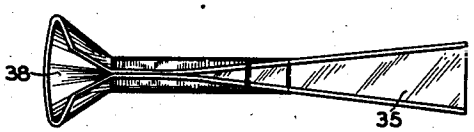


FIG. 7

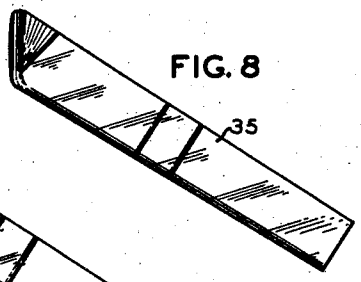
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SAFETY RAZOR

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FIG. 8



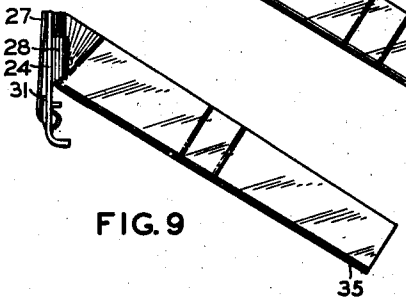


FIG. 9

FIG. 10

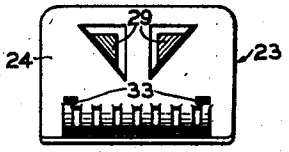


FIG. 11

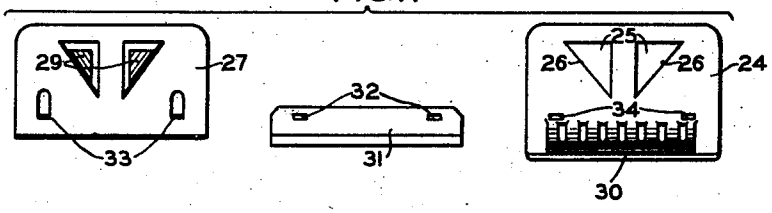
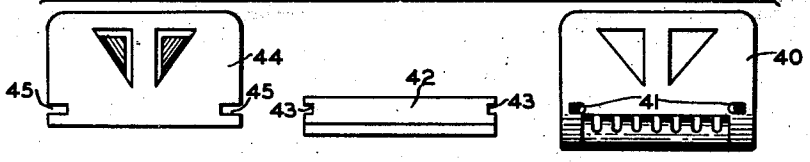


FIG. 12



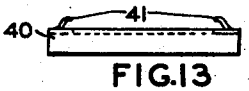


FIG. 13

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Patented Sept. 10, 1946 2,407,516

UNITED STATES PATENT OFFICE

2,407,516

SAFETY RAZOR

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Application August 7, 1944, Serial No. 548,405

9 Claims. (Cl. 30—47)

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This invention relates to an improvement in safety razors.

One of the features of the invention consists in the provision of a lengthwise foldable razor handle that in folded condition provides a connection at one end thereof that engages the blade holder of a razor.

Still a further feature of the invention is provided in the formation of a shaving instrument handle that folds transversely of its length to fit within a match book folder.

Another feature of the invention resides in the provision of a blade holder having interfitting tongue and hole parts that form a slot therebetween adapted to receive one end of a handle to hold the parts in connected relation.

Other features and structural details of the invention will be apparent from the following description when read in relation to the accompanying drawings wherein:

Fig. 1 is a front view of a shaving kit that contains the improved razor.

Fig. 2 is an end view of the kit shown in Fig. 1.

Fig. 3 is a front view of the kit showing the front cover thereof folded to an open position.

Fig. 4 is a view similar to Fig. 3 with the improved razor handle therein formed to an open position.

Fig. 5 is a front detail view of the book match folder shaving kit showing the insert in the base thereof.

Fig. 6 is a detail view of the handle of the safety razor showing the same in unfolded condition.

Figs. 7 and 8 are detail views showing the razor handle folded along its lengthwise dimension.

Fig. 9 is a side elevation showing the parts of the safety razor assembled for use.

Fig. 10 is a detail front view of the blade holder of the improved safety razor.

Fig. 11 is an exploded view showing the detail parts of the blade holder illustrated in Fig. 10.

Fig. 12 is a view similar to Fig. 11 illustrating a modified form of blade holder, and

Fig. 13 is a detail bottom view of one of the parts of the blade holder illustrated in Fig. 12.

With reference to Figs. 1 to 5 of the drawings, the safety razor of the present invention is shown in connection with a cardboard folder having front and rear walls indicated respectively at 20 and 21. The folder is of conventional match book construction except for the provision of an insert 22 in the base thereof shaped in the form of a triangle. The insert is connected to the folder by staples or other suitable means with the tapering part thereof extending upwardly beyond the

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edge of the bottom part of the front wall 20. The folder closes in a conventional manner, the same forming a kit that encloses the improved razor blade holder and handle.

With reference to Figs. 2, 4, 10 and 11, a razor blade holder indicated generally at 23 includes a V-shaped slot therein that fits the insert 22 and positions the holder within the kit. As shown in Fig. 11, holder 23 may be formed of a part 24 having holes 25 with converging sides 26 and a tongue part 27 with tapering projecting pieces having side walls 28 adapted to fit the respective sides 26 of the hole part 24. Parts 24 and 27 of the razor may be made of a suitable metal such as steel. As shown in Fig. 2, the projecting pieces of the part 27 extend through the holes 25 in the part 24 when the holder is assembled. The interfitted tongue and hole parts form a V-shaped socket, one of whose walls is defined by the inside wall of the part 24. The other of the walls of the socket is defined by the inside faces of the end walls 29 of the part 27 of the holder. The position of the holder within the kit is shown in Figs. 2 and 4. The sides of the socket are shaped to closely fit the triangular insert 22. As hereinafter described, the mounting socket for the holder in the kit also receives the handle of the instrument.

Part 24 of the holder includes a guard 30. A flat razor blade 31 having spaced slots 32 therein is positioned between the respective parts of the holder. In the showing in Fig. 11, the part 27 includes spaced projections 33 adapted to fit the slots 32 in the blade. In order to mount the blade on part 27, the spacing between the projections 33 is made slightly less than the spacing between the slots 32. Due to the flexure in the flexible blade 31 when these parts are interfitted, the blade 31 is held in position on the part 27 with sufficient firmness to prevent the same from falling off in the absence of the part 24. When the parts are attached, the blade 31 is held therebetween. Projections 33 of the part 27 then extend through the slots 34 in the part 24.

The handle of the safety razor is indicated at 35 in Figs. 3, 4 and 6 to 9 inclusive. As shown in Fig. 6, handle 35 is preferably formed of a substantially flat piece of pliable material which may also be waterproofed that is generally rectangular in shape. The handle may be a tough cardboard material that is scored at 36 transversely of its length to fold to a U-shape and fit in the kit as shown in Fig. 2 with its juxtaposed walls on opposite sides of the positioned razor blade holder. Handle 35 is foldable along

its lengthwise dimension at the scoring lines **37** and along its transverse dimension to assume the form in which it is shown in Figs. 7 and 8. When so folded the approximately trihedral shaped end of the handle is inserted in the socket in the razor holder, the position in which it is illustrated in Fig. 9. The curved surface **38** of the handle is pressed flat against the part **24** of the holder so that the handle is tightly engaged in the handle receiving socket hereinbefore described in connection with the insert **22** of the kit.

To make the kit complete, a small tube **39** of shaving cream may be suitably secured to the handle **35** in the position for the same shown in Figs. 2 and 4.

In the modification of the invention shown in Figs. 12 and 13, the razor holder includes a part **40** having spaced projections **41** thereon adapted to receive the flexible blade **42**. In this construction, slots **43** are provided at the respective ends of the blade, the same engaging the projections **41** and fitting therebetween under flexure to retain position on the part **40**. To accommodate the projections **41**, the part **44** of the holder is also provided with suitable slots **45**.

As many changes could be made in the above construction and many apparently widely different embodiments of this invention could be made without departing from the scope thereof, it is intended that all matter contained in the above description or shown in the accompanying drawings shall be interpreted as illustrative and not in a limiting sense.

What is claimed is:

1. A safety razor having a blade holder with a handle receiving slot therein, and a lengthwise and transversely foldable handle that in folded condition provides an approximate trihedral connection at one end thereof adapted to engage the socket in said holder.

2. A safety razor handle foldable along its length and width that in folded condition is shaped in the form of an approximate trihedron at one of the ends thereof.

3. A safety razor handle formed of a substantially rectangular flat piece of pliable material scored lengthwise and transversely to fold to a tapering body having an approximate trihedral shape at one of the ends thereof, said flat piece also being scored transversely of its length to fold to a U-shape.

4. In a safety razor, a flexible blade having slots in the end portions thereof, a holder for said blade having spaced projections thereon fitting said slots, the spacing between said projections being slightly less than the spacing between said slots to retain said blade on said holder due to the flexure in said blade.

5. A safety razor having a blade holder with interfitting tongue and hole parts formed to provide a socket, one of whose walls is defined by the tongue part and the other of whose walls is defined by the hole part, and a handle having one end thereof fitting between the parts defining said socket to retain the same in position on said blade holder.

6. A razor as claimed in claim 5, in which said socket is V-shaped.

7. A razor as claimed in claim 5, in which the socket fitting end of said handle is shaped in the form of an approximate trihedron.

8. A safety razor having a blade holder with a V-shaped socket therein, and a handle with lengthwise and transverse folding lines that in folded condition provides a portion at one end thereof with flared sides adapted to fit said socket.

9. A razor as claimed in claim 8, in which said handle is formed of cardboard.

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