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C. W. JONES

COMBINED RAZOR AND BLADE HOLDER

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Fig. 1

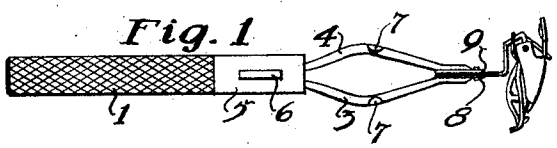


Fig. 2

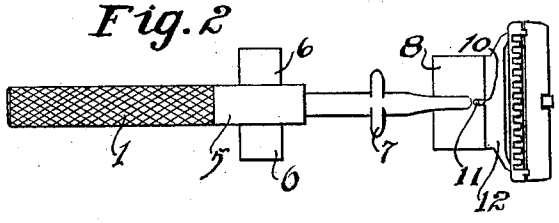


Fig. 3

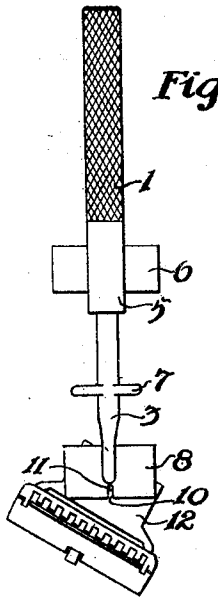


Fig. 4

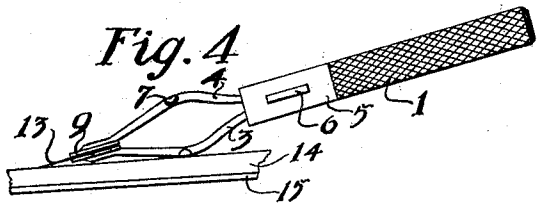


Fig. 7

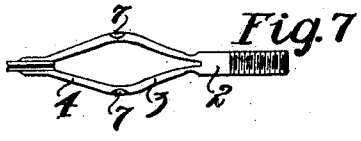


Fig. 6

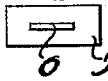
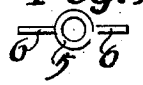


Fig. 5



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Att'y.

and blade holders, of which the following is a specification.

The present invention relates to shaving devices, and more particularly to a combined safety razor and blade holder.

For satisfactory shaving it is essential that the cutting edge of whatever device is used be as keen as possible. In order to provide an edge that will readily remove a growth of beard from the face, it is desirable to sharpen the blade at the beginning of each shaving operation. Stropping alone will maintain an edge in good condition for a certain length of time, but it is necessary from time to time, to provide a new edge by means of honing. There are various devices by which it is possible to resharpen a razor blade by means of stropping and honing, but where shaving is performed with a safety razor, the blade thereof being simply a thin piece of metal sharpened on one or more edges, it is usually necessary to use a separate holding device for honing such a blade and another one for stropping it.

An object of the present invention is to hold a blade for a sharpening operation by means incorporated in a safety razor.

Another object of the invention is to make a safety razor with a blade holder having a stropping and honing guide integral therewith.

Another object of the invention is to combine with a safety razor, means which will indicate by touch the position of a blade.

Another object is to improve and simplify a holding means for a blade.

In order to attain these objects, I provide in accordance with one feature of my invention, a knurled handle having a threaded opening into which may be screwed a pair of gripping jaws having integral therewith guiding means for a blade, and the jaws of which are designed to receive a blade which will be positioned and guided thereby for a sharpening operation. A safety razor head which may be turned to any desired angle with respect to the handle to secure an angular stroke may also be inserted

Figure 1, is a view in side elevation of a safety razor incorporating the present invention.

Figure 2, is a view in bottom elevation thereof.

Figure 3, is a view in bottom elevation of the device with the head set for an angular stroke.

Figure 4, is a view in side elevation of the device in use as a blade holder during a sharpening operation.

Figures 5 and 6, show respectively, end and side elevations of a ferrule with which is incorporated guiding extensions; and

Figure 7, is a view in side elevation of the gripping jaws.

Referring to the drawings in detail:

An assembled device as used for shaving is illustrated in Figures 1 to 3.

A handle 1 is provided with a threaded aperture interior thereof, into which may be screwed a threaded shank 2 having curved arms 3 and 4 integral therewith. The periphery of the handle may be knurled as shown to provide a convenient means for grasping the handle. A ferrule 5 may be provided with lateral extensions 6, and this ferrule is provided with a central opening large enough so that it may be easily slipped over the threaded portion of shank 2 when assembling these parts. Lateral extensions 7 on each of the curved arms 3 and 4 are smoothly machined to provide a guide and prevent tilting of the device during a honing or stropping operation. Integral with arms 3 and 4, respectively, are plates 8 and 9 of any suitable metal, each plate being provided in its forward edge with a notch 10 of a size to conveniently receive a pin 11, integral with a plate-like portion 12 integrally connected to a safety razor head of a well-known type. When thus mounted, the safety razor head may be revolved in the plane of plate 12 to any desired angle with respect to the handle 1. This may be accomplished by unscrewing the handle from the threaded shank 2 to release the gripping jaws, turning the head about the pin 11 as a pivot and again firmly securing

the head between the gripping jaws by screwing the handle onto threaded shank 2. When the handle is unscrewed to release the gripping jaws, the ferrule 5 is also released and is free to be rotated about the shank 2. When the handle is thus loosened, the ferrule may be positioned with the guiding extensions in a desired position with respect to the plane of plate 12, the position to conform to the requirements of the individual using the device. When the handle is again screwed onto the threaded shank 2 to tighten the gripping jaws, the ferrule is thereby firmly secured in position. The relation of the position of the lateral extensions on the ferrule to that of plate 12 being known, the user may, since, in the normal use of the device, his hand is in contact with the lateral extensions thereof during a shaving operation, be able to determine at all times the position of the razor blade with respect to his hand. This feature is especially desirable when shaving in a poor light or without a mirror.

When it is desired to use the device for sharpening a blade, the gripping jaws are loosened by unscrewing the handle and the safety razor head is removed. A blade 13 may then be inserted between the gripping jaws and the handle again screwed tight to cause the jaws to firmly grip the blade, as shown in Figure 4. The degree of curvature of the arms 3 and 4 is predetermined and is such that, when the device is being used for honing or stropping, as shown in Figure 4, and the blade is inserted between the jaws a predetermined amount, lateral extensions 6 or 7 will rest flat upon the surface of the hone 14 or strop 15, and the edge of blade 13 will be positioned against the surface of the hone or strop at a predetermined angle, to produce a cutting edge of maximum efficiency.

In honing a blade, the device is conveniently held in the hand and lightly pressed upon a hone 14 and pushed across it, the blade raised, the handle turned between the thumb and finger, the other side of the blade presented to the hone, and the operation repeated until a desired edge has been secured. After this the blade is presented to a strop 15 which may be secured to the opposite side of the hone, as in Figure 4, and the blade drawn across the strop first on one side, then on the other in a well-known manner. The construction of the device assures that the blade is held at the proper angle with respect to the hone or strop at all times when a lateral guide extension 6 or 7 and the edge of the blade 13 are in contact simultaneously with the hone or strop.

What I claim is:

1. A safety razor and blade holder, comprising, in combination, a handle having a threaded aperture therein, a pair of oppositely disposed bowed arms of semi-circular cross section integral with a threaded member to engage the threaded aperture in the handle, a ferrule surrounding the arms adjacent the handle, adjustable guide means integral with the ferrule, parallel plates connected to the arms to grip a blade, guide means integral with each bowed arm to engage a sharpening means to position the blade gripped by the plates at a predetermined angle with respect to the sharpening means, and a safety blade holding device having a flat portion integral therewith with a pivot pin thereon, to be angularly adjustably connected to the blade holding plates.

2. In a combined safety razor and blade holder, a handle, diverging arms removably secured thereto, a ferrule adjacent the handle and surrounding the diverging arms, convergent portions of said arms having parallel gripping members connected thereto, guide means integral with the diverging arms to maintain the gripping means at a predetermined angle with respect to a planiform surface in contact with the guide means and blade, and means to pivotally support a shaving device between the gripping members to shave with a stroke of a determinable angle.

3. In a combined safety razor and blade holder, a handle, a ferrule adjacent thereto, lateral guide extensions integral with the ferrule, diverging arms of a predetermined curvature operatively associated with the handle and the ferrule, converging extensions of said arms, gripping means carried by said extensions, a shaving device adjustably gripped by the gripping means, and means to grip a blade between the gripping means to position it at a predetermined angle to a planiform surface in contact with the edge and a predetermined portion of either of the diverging arms.

4. In a combined safety razor and blade holder, a handle, diverging arms of a predetermined curvature having threaded engagement therewith, a converging arm integral with each diverging arm, gripping means carried by said converging arms, means to relatively move the diverging arms to actuate said gripping means, adjustable lateral guide means to determine by touch the plane of the gripping means, means to grip a pivoted shaving device by the gripping means at a determinable angle with respect to the handle, and means to grip a blade by said gripping means and guide it at a predetermined angle across a planiform surface in contact with the edge of the blade and predetermined portion of either of the diverging arms.

5. In a combined safety razor and blade holder, a handle, a ferrule adjustably positioned adjacent thereto, lateral extensions

integral with the ferrule, diverging arms operatively associated with the handle and the ferrule, a converging portion of each of said arms, parallel gripping means supported by said converging arms, a shaving device adjustably gripped by the gripping means, a guide member associated with each diverging arm, and means to position a blade between the gripping means at a predetermined angle to a planiform surface in contact with the edge of the blade and either of said guide members.

In testimony whereof I affix my signature.

CHARLES W. JONES.