

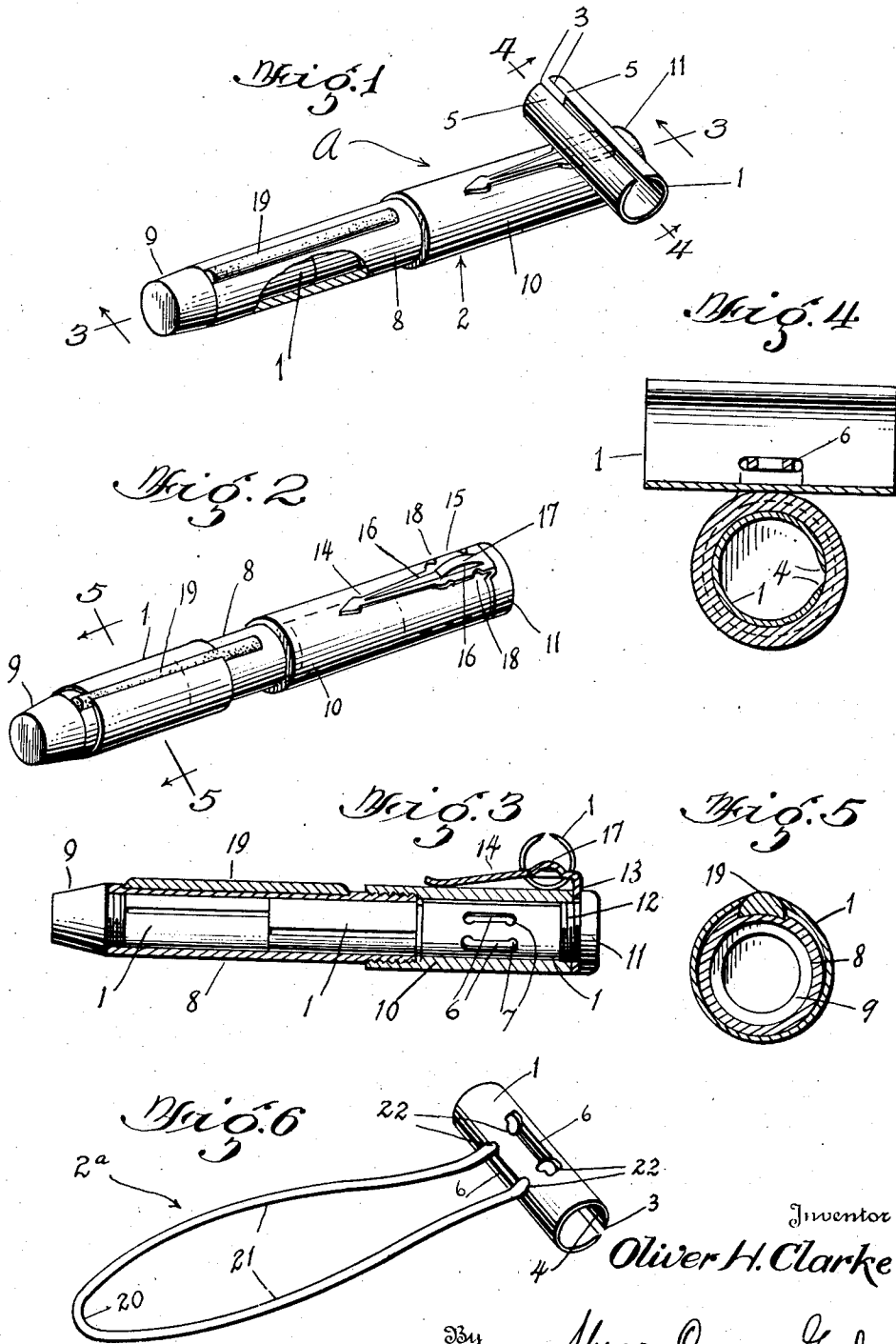
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RAZOR

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RAZOR

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9 Claims. (Cl. 30-35)

Generically this invention relates to razors, but it more particularly is directed to the safety type and with combination handle and container or case.

The principal object of this invention is the provision of a double edge blade constituting the razor head or body and a detachable handle therefor.

One of the principal objects of this invention is the provision of a double edge blade constituting a razor body or shaving head and safety guard means, and a detachable handle therefor.

An important object of this invention is the provision of a double edge blade forming a safety cutting head adapted to cut in either shaving direction without changing the position of the head or razor.

A further important object of this invention is the provision of a cylindrical double edge blade or cutting head, a detachable handle means therefor, said handle means constituting a carrying case for the blade or head.

A still further object of this invention is the provision of a razor of this character comprising a combination integral blade and safety guard means, and a detachable handle means constituting a blade sharpener and carrying case.

With these and other objects in view, which will become apparent as the description proceeds, the invention resides in the construction, combination and arrangement of parts, hereinafter more fully described and claimed, and illustrated in the accompanying drawing, in which like characters of reference indicate like parts throughout the several figures, of which:

Fig. 1 is a perspective view partly in section of the blade operatively attached to the case-handle.

Fig. 2 is a similar view to Fig. 1 with the blade removed and in sharpening position.

Fig. 3 is a section on the line 3-3 of Fig. 1.

Fig. 4 is a section on the line 4-4 of Fig. 1.

Fig. 5 is a section on the line 5-5 of Fig. 2.

Fig. 6 is a perspective view of the blade operatively attached to a simplified handle structure.

The safety razor structures with which I am familiar are more or less bulky, especially including their carrying cases, formed of several parts, and when traveling often rendering it difficult to assemble, disassemble and clean and to handle the blade without being cut thereby, and, in addition, the flat double edge blade is dangerous when loose in the case, drawer or after being discarded, and it was to overcome such disadvantages, and to provide a blade which could

be handled under substantially all conditions of use in traveling or otherwise without fear or likelihood of being cut, and which could be discarded with impunity, said blade being so formed as to provide opposite cutting edges facing each other, so as to cut in either direction without changing the razor holding position, the non-cutting edge acting as a guard, said blade adapted to constitute the cutting head or razor proper, and a detachable handle for the blade, said blade and handle constituting a complete razor, that I designed the device forming the subject matter of this invention.

In the illustrated embodiment characterizing this invention there is shown a safety razor A comprising a blade 1 and handle 2.

The blade 1 in the present instance is cylindrical in form or configuration with its cutting edges 3 beveled on their under or inner faces as at 4 and facing each other in suitable spaced relation. The exterior surface adjacent each cutting edge constitutes a face contacting safety guard means 5 for the opposite edge when the latter is moving in cutting direction. The blade 1 may correspond in length to that of the standard blade now in use or of any length desired, and at its back or substantially opposite to said cutting edges 3 it is formed with the handle receiving spaced slots 6. Said slots 6 are formed at the ends of their facing edges with the spaced notches 7, as will directly more fully appear.

The handle 2 comprises a fountain pen type casing or container including a hollow barrel or body portion 8 internally threaded at one end to receive the externally threaded tapered end plug 9 and exteriorly threaded at its other end for threaded engagement with the cap portion 10. Said portion 10 at its opposite end is adapted to threadedly receive the end plug 11, on the stem 12 of which is mounted the apertured end 13 of clip member 14 adapted to secure the casing to a pocket or the like in accordance with conventional use, but primarily designed to secure the blade 1 to said casing when the latter is being used as a razor handle, as shown in Fig. 1.

The clip 14 adjacent end 13 is formed with a rectangular head portion 15, formed with an elongated cut out portion 16, a spring tongue element 17, and a pair of spaced notches 18 on opposite sides, adapted by the spring action of said sides, when the clip is threaded or projected through the slots 6 of blade 1, to engage the ends of said slots and in conjunction with spring tongue 17 maintain the blade or cutting head 1 firmly attached and in locked position on the

handle 2 as clearly shown in Fig. 1. To detach said blade-head it is only necessary to move it in the reverse or disengaging direction, as will be well understood.

Suitably embedded in or attached to the barrel portion 8 is a strip of leather, abrasive, or like blade sharpening material 19 designed, when the head is mounted on said barrel as shown in Fig. 2, to engage the bevel surfaces 4 and effect sharpening of the cutting edges 3 by a reciprocating movement of said blade thereover.

In the present instance the handle, when constituting a razor case, is designed to carry three blades in end to end relation, and by nesting or telescoping the blades a greater number may be carried if desired. The case is adapted to be loaded from either end and, to remove and replace the blade being used, it is only necessary to remove either the cap 10 or the plug 9. Said case may be constructed from any suitable material, and is adapted to be carried like any conventional fountain pen.

Though not presenting all of the advantages of the device above described, if desired an ordinary fountain pen may be utilized by substituting the clip 14 for the usual clip and carrying the blade 1 in the cap of the pen, corresponding to cap member 10, the nib of the pen adapted to extend within the blade without interference when the cap is in place.

Under certain conditions it may be desirable to produce the razor without regard to the carrying case and sharpening features, hence Fig. 6 illustrates a simplified handle structure 2a operatively attached to the blade or head 1.

The form shown in Fig. 6 is identical in principle and operation to that shown and described in connection with Fig. 1, except the detachable handle 2a is constructed from a single piece of spring wire bent central of its length as at 20 to form the hand grip members 21, each formed on their side edges adjacent their free ends with a pair of recesses or notches 22 adapted to interlock with the notches 7 in slots 6 when the ends of handle members 21 are inserted in said slots, the spring action of members 21 maintaining the coacting slots in interlocking engagement and a rigid connection between the blade or head and the handle 2a. To remove the handle it is only necessary to compress the members 21 sufficiently to disengage the notches 22 and remove the blade. The members 21 may be bent at 23 to change the angle of the handle 2a with respect to cutting edges 3 as desired.

By the use of the handle 2a the complete razor comprises only two parts, the blade, which may be termed the shaving head, comprising two cutting edges adapted, upon up and down or backward and forward movement of the blade, to cut in alternate opposite directions, the noncutting edge acting as a guard for the opposite cutting edge, as above described. By widening or narrowing the space between the cutting edges, adjustment thereof in accordance with different types of beards or particular shaving requirements may be effected.

From the above it is apparent that I have designed a simple, inexpensive razor comprising only a double edge blade and a handle therefor, adapted to cut or shave in opposite directions without changing the holding position of the razor, and if desired having the handle constitute a complete carrying case and blade sharpener; said device whether in use or as a case being compact in form, neat and pleasing in

appearance, yet easily cleaned, quickly assembled and disassembled, manufacturable at a negligible cost, and efficient for the purposes intended.

Although in practice it has been found that the form of the invention illustrated in the accompanying drawing and referred to in the above description as the preferred embodiment is the most efficient and practical, yet realizing that conditions concurrent with the adoption of the invention will necessarily vary, it is well to emphasize that various minor changes in details of construction, proportion and arrangement of parts, may be resorted to within the scope of the appended claims without departing from or sacrificing any of the principles of the invention.

Having thus described the invention, what is desired protected by Letters Patent is as set forth in the following claims.

I claim:

1. A razor assembly comprising a cylindrical member formed with a longitudinally extending abrasive, a cylindrical blade interiorly dimensioned to telescopically receive said cylindrical member, said blade being longitudinally slotted to form opposing cutting edges adapted to engage opposed surfaces of said abrasive, whereby the edges of said blade are sharpened.

2. A cylindrical member constituting a handle and blade carrying case, a blade retaining means at one end of said member, said member having a longitudinally extending blade sharpening means, a cylindrical blade interiorly dimensioned to telescopically receive said cylindrical member, said blade being longitudinally slotted to form opposing cutting edges adapted to engage opposed surfaces of sharpening means, whereby the sharpening of said edges is effected.

3. A safety razor blade formed from a single piece of blade material rolled to form a tube having a slot extending longitudinally thereof, and defined by the opposing edges of said material, said opposing edges having their under surfaces beveled and being arranged with respect to each other in such a manner that said blade will cut in either direction with the non-cutting edge serving as a guard for the cutting edge.

4. A safety razor blade formed from a single piece of blade material rolled to form a cylinder having a lengthwise extending slot defined by the opposing edges of said piece of material, said opposing edges having their under surfaces beveled and being arranged with respect to each other in such a manner that said blade will cut in either direction, with the non-cutting edge serving as a guard for the cutting edge, said cylinder being also formed with holder receiving slot means.

5. A safety razor blade formed from a single piece of blade material rolled to form a cylinder having a lengthwise extending slot defined by the opposing edges of said piece of material, said opposing edges having their under surfaces beveled and being arranged with respect to each other in such a manner that said blade will cut in either direction, with the non-cutting edge serving as a guard for the cutting edge, said cylinder being also formed with a pair of holder receiving slots.

6. In a safety razor, the combination of a single tubular blade having a lengthwise extending slot defined by the opposing edges of said blade, said opposing edges having their under surfaces beveled and being arranged with re-

spect to each other in such a manner that said blade will cut in either direction with the non-cutting edge serving as a guard for the cutting edge, a holder and means for effecting a quick detachable connection between the blade and holder.

7. In a safety razor, the combination of a single blade in the form of a tube having a lengthwise slot defined by the opposing edges of said blade, said opposing edges having their under surfaces beveled and being arranged with respect to each other in such a manner that said blade will cut in either direction, with the non-cutting edge serving as a guard for the cutting edge, a holder adapted to extend through the blade and coacting means between the blade and holder to effect a rigid detachable connection of the holder with the blade.

8. In a safety razor, the combination of a single tubular blade having a lengthwise extending slot defined by the opposing edges of said blade, said opposing edges having their under surfaces beveled and being arranged with respect to each

other in such a manner that said blade will cut in either direction, with the non-cutting edge serving as a guard for the cutting edge, said blade being also formed with a pair of holder receiving slots, a holder, and means in connection with said holder and slots to effect a detachable and rigid interlocking of the holder and blade.

9. In a safety razor, the combination of a single tubular blade having a lengthwise extending slot defined by the opposing edges of said blade, said opposing edges having their under surfaces beveled and being arranged with respect to each other in such a manner that said blade will cut in either direction, with the non-cutting edge serving as a guard for the cutting edge, a holder including a clip, said clip adapted to extend through the blade, and coacting means between the blade and clip to effect a detachable rigid connection between the blade and holder.

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