Sept. 3, 1946. J. W. ANDERSON 2,406,984

HANDLE FOR SAFETY RAZORS

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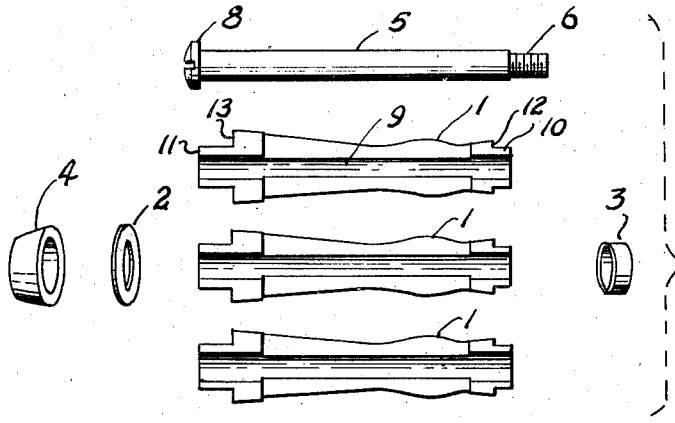


FIG. 1

FIG. 2

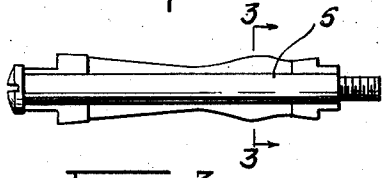


FIG. 3



FIG. 4

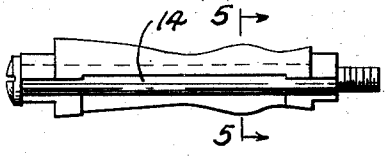


FIG. 5



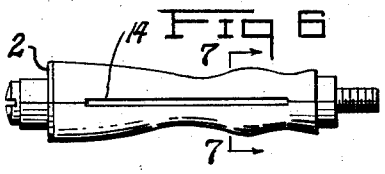


FIG. 6



FIG. 7

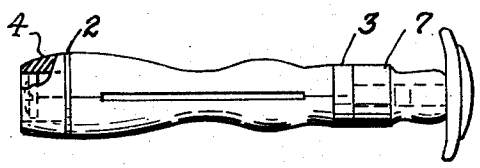


FIG. 8

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HANDLE FOR SAFETY RAZORS

John W. Anderson, Gary, Ind.

Application July 31, 1944, Serial No. 547,404

12 Claims. (Cl. 30—85)

1

This invention relates to a handle for a safety razor.

In my copending application Serial No. 543,067, filed July 1, 1944, I have shown a safety razor of the type wherein the handle assembly is constructed so that the blade carrying head can rotate around the axis of the handle and thereby automatically equalize throughout the length of the cutting edge of the head its pressure against the area to be shaved and the handle is arranged to be flexed by manual pressure exerted by the person shaving to serve as a brake and retard rotation of the handle when desired.

It is an object of this invention to produce a manually distortable handle suitable for the above-described type of safety razor which is efficient in operation, of simple structure, and which can be easily assembled together.

It is also an object of this invention to produce a handle which lends itself readily to different decorative effects to thereby satisfy diverse esthetic tastes of the shaving public.

In the drawing:

Fig. 1 is an exploded view showing the several elements of my safety razor handle.

Fig. 2 is a view illustrating the first step in the assembling of the handle.

Fig. 3 is a section along the line 3—3 of Fig. 2.

Fig. 4 is an elevation illustrating the second step in the assembly of the handle.

Fig. 5 is a section along the line 5—5 of Fig. 4.

Fig. 6 is an elevation illustrating the third step in the assembly of the handle.

Fig. 7 is a section along the line 7—7 of Fig. 6.

Fig. 8 is an elevation of the final assembly of the handle on the safety razor.

Referring more particularly to the drawing, it will be seen that the handle comprises three identical longitudinal sections generally designated 1, rings 2 and 3, and a cap 4. The shaft upon which the handle is rotatably mounted is designated 5. The shaft has a threaded end 6 for screwing into the conventional head 7 of a Gillette type safety razor and a head 8 for retaining the handle on the shaft.

The handle sections 1 can be made from any suitable flexible or distortable material but preferably are molded from a thermoplastic material. The handle sections 1 are identical. The handle is made up from a plurality of identical molded sections 1, and for purposes of description the handle is shown as made from three longitudinal sections 1. Each section has an inner face 9 in the form of a longitudinal section of a cylinder. Each section is provided with

2

reduced ends 10 and 11 and end shoulders 12 and 13.

One of the faces of each section is provided with a longitudinal groove 14 extending preferably throughout a major portion of the length of the handle section. Washer 2, ring 3 and end cap 4, as well as the handle sections 1, can be made from plastics having different colors to thereby create a multitude of different colored designs to satisfy the diverse esthetic tastes of the users of my razor. For example, washer 2 and ring 3 can be molded black plastic whereas handle sections 1 and cap 4 can be white. Since each of the several parts can be made in any color desired, my handle assembly lends itself to a legion of different color combinations.

In assembling the various parts into a handle, the handle sections 1 are first placed about an arbor in juxtaposition. A convenient arbor is the handle shaft 5. The steps of placing the handle sections about the arbor in juxtaposition are illustrated in Figs. 2 to 7. After the handle sections are placed about the shaft, washer 2 and ring 3 are slipped over the ends 11 and 10, respectively of the handle. Preferably the washer and ring are integrally joined to the ends of the handle. Where the washer 2 and ring 3 are made of molded plastic they can be joined to the ends of the assembled sections 1 by means of a suitable plastic cement, such as amyl acetate. However, any other method of joining or welding rings 2 and 3 over the ends of the sections 1 can be employed or they can have a press fit thereon. Rings 2 and 3 can be made of metal but preferably are made of the same material as the handle. As a final step cap 4 is mounted over the reduced end 11 of handle and cemented or welded in place.

It will be appreciated that shaft 5 can be slipped out of the handle any time desired for cleaning purposes. The handle also will rotate relative to shaft 5 but this rotation can be retarded or stopped altogether by manual pressure exerted on the handle by the person shaving with the razor which causes a braking effect of the inner surface 9 of the handle against the outer surface of the shaft 5. The handle can be assembled to the head 7 of the razor by screwing shaft 5 into the head of the razor in a conventional manner.

Groove or relief 14 in the flat face of each section 1 cooperates with the adjacent face of the adjacent section to form a slot. This slot facilitates the flexing of the handle by manual

pressure to obtain the desired braking action between the handle and its supporting shaft.

I claim:

1. A handle for a safety razor comprising, a spindle, a plurality of longitudinal flexible handle sections rotatably mounted on said spindle, and means securing said sections together throughout a limited portion of their lengths whereby said sections may be made to flex in their unjoined areas relative to the longitudinal axis of the spindle for retarding rotational movement of said handle.

2. A handle for a safety razor comprising, a spindle, a plurality of longitudinal flexible sections rotatably mounted on said spindle, and means joining said sections together at their opposite ends whereby the sections may be made to flex between their ends toward the spindle for retarding movement of the handle relative to said spindle.

3. A handle for a safety razor comprising, a spindle, a plurality of longitudinal sections rotatably mounted on said spindle, said sections having yieldable portions, and means for maintaining said sections in substantially fixed relationship to each other whereby the said portions may be pressed relative to the spindle for retarding movement of the handle relative to said spindle.

4. A handle for a safety razor comprising, a spindle, a plurality of longitudinal sections rotatably mounted on said spindle, said sections having yieldable portions, and means securing said sections together throughout a limited portion of their lengths whereby said portions may be moved to retard movement of the handle relative to said spindle.

5. A handle for a safety razor comprising, a spindle, a plurality of identical longitudinal sections having their inner faces in the form of a longitudinal section of a cylinder, said sections being rotatably mounted on said spindle in juxtaposition about a common longitudinal axis so that their inner faces form a cylindrical surface, one of said sections being provided with a yieldable portion, and means for joining said sections together whereby said portion may be moved to retard movement of the handle relative to the spindle.

6. A handle for a safety razor comprising, a spindle, a plurality of longitudinal sections rotatably mounted on said spindle, and means holding said sections in assembled relationship whereby at least a portion of each section is free to move with relation to each other section in response to pressure to retard movement of the handle relative to said spindle.

7. A handle for a safety razor adapted to be rotatably mounted upon and to embrace a comparatively rigid stem, said handle comprising a plurality of longitudinal yieldable handle sections, means engaging said sections for holding said sections in a predetermined relationship to each other whereby manual pressure upon said handle causes one or more of said sections to effect a braking action upon said stem.

8. A handle for a safety razor comprising a plurality of longitudinal yieldable sections positioned circumferentially about a common longitudinal axis to form an opening therethrough adapted to receive a rigid stem, and means holding said sections in assembled relationship about said axis whereby at least a portion of each section is free to move with relation to each other section in response to manual pressure.

9. A handle assembly for a razor comprising a stem, a plurality of longitudinal sections mounted for rotation on the stem, one of said sections being provided with a yieldable portion, and means for holding the sections on the stem in a manner whereby said yieldable portion of said section may be displaced between its ends to effect a braking force to retard movement between the handle and said stem.

10. A handle for a safety razor comprising, a shaft, a plurality of substantially identical longitudinal sections rotatably mounted on said shaft, said sections having faces forming a cylinder, said handle being fabricated from a material which can be distorted by manual pressure so that one or more of the said faces may cooperate with the shaft in a manner whereby relative rotation between the handle and the shaft may be retarded as desired.

11. In a safety razor of the type having a blade carrying head, the combination of rigid means adapted to be secured to said head, and a handle rotatably mounted on said rigid means, said handle comprising a plurality of sections positioned circumferentially of the rigid means, and means for retaining said handle sections loosely on said rigid means so that at least a portion of one of the handle sections is free to move for a limited distance toward and away from said rigid means whereby the handle portion responds to pressure to effect a braking action between the handle and the rigid means.

12. A razor provided with an operating head, said operating head being provided with a spindle portion, a handle rotatably mounted on said spindle portion, said handle comprising a plurality of sections positioned circumferentially of the spindle portion, and means for retaining said handle sections loosely on said spindle portion so that at least portions of the handle sections are free to move for a limited distance toward and away from said spindle portion whereby the handle sections may be caused to respond to pressure to effect a braking action between the handle and the spindle portion.

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