Oct. 14, 1941. G. MONNET 2,258,620

BLADE PRESERVING MEANS

Filed June 14, 1938

Fig. 1.

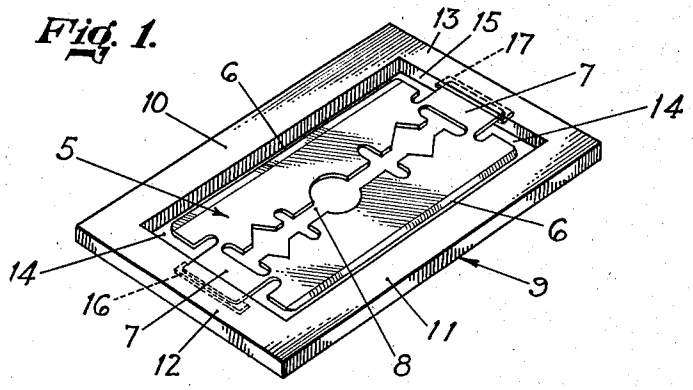


Fig. 2.

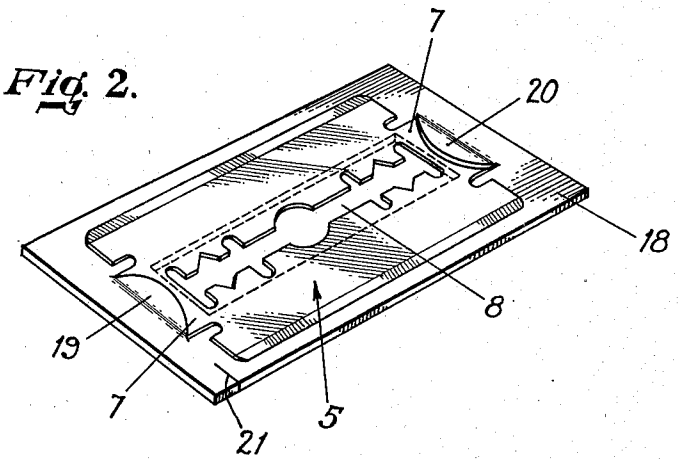


Fig. 3.

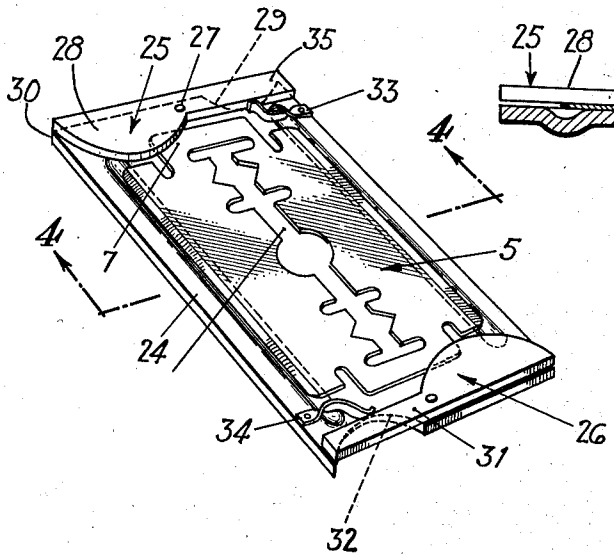
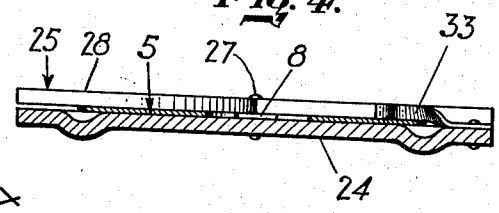


Fig. 4.



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2,258,620

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BLADE PRESERVING MEANS

Georges Monnet, New York, N. Y.

Application June 14, 1938, Serial No. 213,568

1 Claim. (Cl. 206—16)

This invention relates to a double safety razor blade, and refers more particularly to a safety razor blade provided with a support which carries the blade while the latter is not being used.

In my co-pending U. S. patent applications, Serial No. 72,068, filed April 1, 1936, relating to Razor blade support; and Serial No. 99,382, filed September 4, 1936, relating to Blade supporting means, a blade is described which is carried upon a substantially flat support extending beyond the sharp edges of the blade, a separate support being provided for each blade. The blade is secured to the support by glue, overlapping projections, raised portions or the like. Due to the provision of this support, the edges of the blade are not dulled when the blade is not in use, and the danger that the user of the blade might cut his fingers while removing it from its package and placing it upon the safety razor is avoided. The blade is separated from its support and deposited upon a safety razor by gently bending the support in relation to the blade while the latter is held upon a safety razor.

In my co-pending patent application, Serial No. 132,292, filed March 22, 1937, relating to Methods of depositing blades and means therefor, other supporting means for the safety blade are described which serve the same purpose, namely, the preservation of the sharp edges of the blade. The blade is separated from its support by any suitable movement of the support or a part thereof in a plane parallel to the plane of the blade.

An object of the present invention is the provision of a double safety razor blade which consists of the blade proper and its support, and which is so constructed that the blade will be quickly and easily released from its support and deposited upon the safety razor.

Another object is the avoidance of any delay or inconvenience in releasing the blade from its support when the blade is deposited upon the safety razor.

A further object is the provision of a blade support which is so constructed that the blade may be easily released from its support by the fingers of one hand.

Other objects will be apparent in the course of the following specification.

The above and other objects of the present invention may be realized through the provision of a blade support which in itself is not bent or moved when the blade is released, the releasing of the blade being carried out by moving the blade away from the support or by releasing blade-holding means carried by the blade support.

This inventive idea is capable of being carried out in practice in a great variety of ways, some of its embodiments being illustrated by way of example in the accompanying drawing.

In the drawing:

Figure 1 is a perspective view of a double blade which is so constructed that the blade proper is separated from its support by the movement of the blade relatively to the support;

Figure 2 is a perspective view of another type of blade support provided with blade-holding means which are moved for the purpose of releasing the blade;

Figure 3 is a perspective view of a double blade comprising a support provided with separate blade-holding means; and

Figure 4 is a section along the line 4—4 of Figure 3.

The safety razor blades used in connection with the present invention may be of any standard form, although in certain instances it is preferred to employ blades provided with two sharp cutting edges and two tongue portions formed by the dull edges of the blade and separated by shoulders from the cutting edges.

The blade supports may be made of cardboard or of any other suitable fibrous and/or flexible material. In some instances, the support should preferably be made of a hard, resilient substance, such as a metal or metal alloy, for example, steel or the like. The support should be wider than the blades in order to protect their edges as well as the fingers of the user.

The surfaces of the blade support may be waterproofed and rustproofed by waxing or by any other appropriate means.

The device shown in Figure 1 of the drawing comprises a razor blade 5 having two sharp edges 6, two tongues 7, and a central opening 8. The blade 5 is carried by a blade support 9 having the form of a rectangular frame which consists of two elongated side portions 10 and 11 and two shorter supporting portions 12 and 13. The frame of the blade support 9 encloses a central, preferably rectangular, opening 14, which should be sufficiently wide to provide a space between the inner surfaces of the side portions 10 and 11 and the sharp edges 6 of the blade 5. Thus any contact between the edges 6 and the support 9 is avoided.

The inner surfaces 15 of the supporting portions 12 and 13 of the blade support 9 are provided with grooves 16 and 17, respectively, which

are somewhat wider than the tongue portions 7 of the blade 5.

As shown in Figure 1, the blade 5 is connected with the support 9 by introducing the blade into the opening 14 of the support 9 and by inserting the tongue portions 7 of the blade 5 into the grooves 16 and 17 of the support. Due to the provision of these grooves the blade 5 will be held firmly within the support and any danger that the sharp edges of the blade may be dulled or that the user may be injured is avoided.

In order to use the device, it is merely necessary to place the support 9 carrying a blade 5 over the supporting surface of a safety razor not shown. The user may hold the safety razor in one hand while two fingers of his other hand hold the support 9. When the blade is located in its proper position over the safety razor, the user gently presses a third finger against the blade 5, thus bending the blade so that its tongue portions 7 are withdrawn from the grooves 16 and 17. Then the blade 5 is released so that it can drop into its proper position upon the safety razor.

The device shown in Figure 2 of the drawing comprises a safety razor blade 5 carried by a blade support 18 consisting of a flat, rectangular sheet which is wider and longer than the blade. The blade 5 is held upon the support 18 by means of two flaps or tongues 19 and 20, which are preferably cut out of the support 18 and which may be arcuate in shape. The flaps 19 and 20 overlap the tongue portions 7 of the blade 5, thus holding the blade firmly upon the support 18.

The flaps 19 and 20 should be sufficiently wide to bend easily in a direction away from the supporting surface of the member 18 when the user desires to release the blade. For that purpose the edges of the support 18 may be provided with notches 21 which will facilitate the bending of the support 18 in such manner that the flap 19 and/or the flap 20, is bent away from the supporting surface of the member 18.

It is apparent that the blade 5 is released from the support 18 by the application of pressure against the support 18 in such manner that the flaps 19 and 20 either simultaneously or alternately are moved or swung in a direction away from the supporting surface which carries the blade 5.

The device shown in Figures 3 and 4 comprises a razor blade 5 situated upon a sheet or support 24 which carries two blade-holding levers 25 and 26. The lever 25 is pivoted to the blade support 24 at 27 and comprises a flap portion 28 which overlaps a part of one of the tongues 7 of the blade 5. The other end 35 of the lever 25 extends over a cutout portion 29 of the support 24 and preferably constitutes a continuation of the edge 30 of the blade support 24.

The lever 26 is substantially similar in construction to the lever 25 and comprises a portion 31 which extends over the cutout portion 32 of the support 24. Springs 33 and 34 are used for the purpose of holding the levers 25 and 26 in the position shown in Figure 1.

The mode of operating the device shown in Figures 3 and 4 is as follows:

The user may hold the safety razor in one hand while two fingers of his other hand engage the portions 35 and 31 of the levers 25 and 26. When the blade is located in its proper position over the safety razor, the user presses against the portions 35 and 31, thus causing the levers 25 and 26 to swing around their pivots and release the blade 5, which drops into the proper position upon the safety razor. As soon as the pressure upon the levers 25 and 26 is released, the springs 33 and 34 cause them to resume their original positions which are shown in Figure 3.

It is apparent that the specific illustrations shown above have been given by way of illustration and not by way of limitation, and that the structures above described are subject to wide variation and modification without departing from the scope or intent of the invention, all of which variations and modifications are to be included within the scope of the present invention.

What is claimed is:

Blade supporting means, comprising a separate independent support for each single razor blade, said support consisting of a thin substantially rectangular piece of resilient metal having a flat supporting surface for carrying a single razor blade, said supporting surface being somewhat wider than the razor blade to protect the cutting edges thereof, and two curved flaps which are integral with the resilient support and which are situated opposite each other close to opposite edges of the support at a distance enabling said flaps to overlap opposed tongue portions of the blade, at least one notch being formed in said support close to a flap, said notch extending in the longitudinal direction of the flap, whereby a blade held by said flaps may be released by bending those portions of the resilient support which are adjacent to said opposed edges.

GEORGES MONNET.