March 25, 1924. 1,488,169

P. M. SALERNI

SAFETY RAZOR

Filed Jan. 21, 1922

Fig. 1.

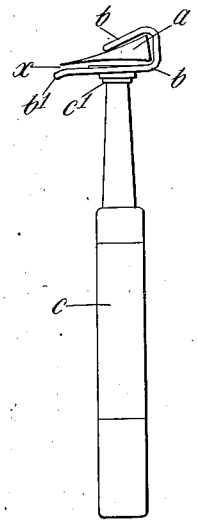


Fig. 3.

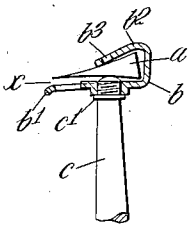


Fig. 4.

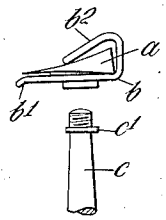


Fig. 5.

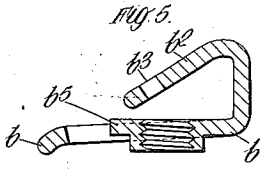


Fig. 2.

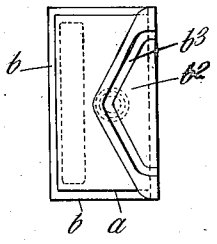
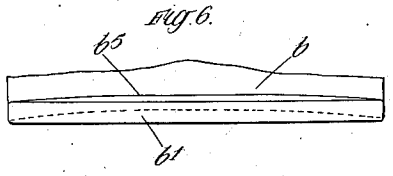


Fig. 6.



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UNITED STATES PATENT OFFICE.

PIERO MARIANO SALERNI, OF SYDENHAM HILL, LONDON, ENGLAND.

SAFETY RAZOR.

Application filed January 21, 1922. Serial No. 530,848.

To all whom it may concern:

Be it known that I, PIERO MARIANO SALERNI, a subject of the King of Italy, residing at No. 20 Sydenham Hill, in the county of London, England, have invented certain new and useful Improvements in Safety Razors, of which the following is a specification.

The present invention relates to safety razors of the kind in which a comparatively rigid razor blade is employed in distinction to what is known as a flexible blade and the main object of the said invention is to provide means whereby in the aforesaid kind of safety razor the distance between the edge part of the blade and the guard may be more conveniently regulated or adjusted.

According to the present invention, the said adjustment is effected by providing the part with a guard, with an overhanging part permanently carried thereby and having at its outer portion resilient relationship thereto. Between the two parts the blade is accommodated and held, The handle screws into the part with the guard so that its inner end bears on the blade forcing it against the said overhanging part and so the distance between the edge of the blade and the guard may be adjusted against the resilience. The two parts aforesaid are preferably formed from one piece of resilient metal. Other features of the invention are hereinafter set forth and claimed.

In order that the said invention may be clearly understood and readily practised it is hereinafter more particularly described with reference to the accompanying drawings which illustrate the preferred embodiment thereof.

In the said drawings Figures 1 and 2 illustrate the safety razor respectively in side view and face view. Figure 3 is a section of the holder and blade with portion of the handle. Figure 4 is a side view of the holder and blade with a portion of the handle before it is engaged in the holder and Figures 5 and 6 are respectively a cross section of the holder and front view of a portion thereof both figures being drawn to a larger scale than Figures 1–4.

In the following description the parts of the said drawings are referred to by the letters and numerals marked thereon the same letters and numerals indicating the same parts in all the figures.

a is the razor blade and b is the holder having a part b' constituting the guard and an overhanging flange b^2. The holder is formed from a piece of spring phosphor bronze of sufficient thickness for the requisite strength but such as to provide a relative resilience between the guard b' and and flange b^2. The razor is accommodated in the space between the guard b' and flange b^2 and the extremity of the said flange bears on the razor blade. To increase the resilience the flange b^2 is slit at b^3 whereby its extremity bearing on the blade is caused to be specially resilient. The handle c screws into the holder and its inner end bears on the blade forcing it against the flange b^2 which being resilient relatively to the guard b' the spindle and blade are particularly firmly secured in the proper positions. The handle c is provided with a flange c' which acts as a stop and limits the extent to which the razor blade may be adjusted from the guard. By screwing the handle a little more or less into the holder the blade may be adjusted in position relatively to the guard against the resilience provided or the position of the blade controlled by that resilience and so the distance x between the edge part of the blade and the guard b' may be adjusted. The holder b is provided with an aperture b^4 to the rear of the guard b' to enable the lather to be removed. To the rear of this aperture the holder is upwardly arched at b^5 from end to end as best shown in Figures 5 and 6 whereby when no pressure or but little pressure is being put on the blade by the handle the edge part of the blade is prevented from being in contact with the guard or in contact therewith under any material pressure from the flange b' because it will be understood that even when the handle end is not bearing on the blade the flange b' bears with some slight resilient pressure on the blade to keep it in position. The said arched part b^5 also aids in placing the blade in the holder. If the blade were simply pushed endwise into the holder without provision such as that at b^5 there would be a danger of the edge of the blade being injured by being forced over the guard but by the formation referred to the edge part of the blade is gradually raised from the guard from its first engagement under the flange b^2. It is desirable that the resilient pressure be slight as aforesaid to admit of comparatively ready disposition of the blade in the holder as described and

this being so it is necessary that the screw thread engagement of the handle with the holder be a fairly tight one at all times to avoid any possibility of the handle turning in the holder during use of the safety razor. Such a good screw thread engagement may be provided for by making the diameter of the screw threaded end of the handle just a little greater than the hole in the holder and providing a resilience at the part and such resilience may be conveniently obtained by providing an axial slit or slits in the screw threaded end of the handle so forming two or more jaw like parts or prongs with slight slit like spaces between them. To do this the end part of the handle may first be slit, the divided parts brought towards one another and while in that condition the screw thread formed on the end of the handle corresponding to the screw thread in the holder and after this has been done the divided parts are allowed to spring out slightly to resume their normal position.

Besides attaining the main object of the invention safety razors embodying the invention are simple in construction consisting merely of two parts and the blade, are durable in use and can hardly get out of order. They are moreover very economical to manufacture.

What I claim and desire to secure by Letters Patent of the United States is:—

1. A safety razor having in combination a blade holder, said holder comprising a guard member and an overhanging flange member, a blade adapted to be held between said members, said overhanging flange member being slotted to increase its flexibility and forming a blade engaging finger, said finger being narrower at its forward portion than at its ends, a handle detachably connected to said guard member and engaging said blade for adjustably maintaining the latter in operative position.

2. A safety razor having in combination a blade holder, said holder comprising a guard member and an overhanging flange member, a blade adapted to be held between said members, said guard having a longitudinal tapered projection on its inner surface, for preventing objectionable contact of the blade with the guard and to aid in applying the blade in the holder, and a handle connected to said holder and engaging said blade for adjustable maintaining the latter in operative position.

3. A safety razor having in combination a blade holder, said holder comprising a guard member and an overhanging flange member, a blade adapted to be held between said members, said overhanging flange member being slotted for resiliently maintaining the blade in position, said guard having an arched projection extending lengthwise of the holder, said guard member being provided with a central threaded opening, a handle adapted to be threadedly secured to said opening and engage said blade for adjustably maintaining the latter in operative position.

PIERO MARIANO SALERNI.