March 29, 1927. 1,622,904

T. B. CREWS

COMBINED SAFETY RAZOR AND BLADE SHARPENER

Filed April 13, 1925

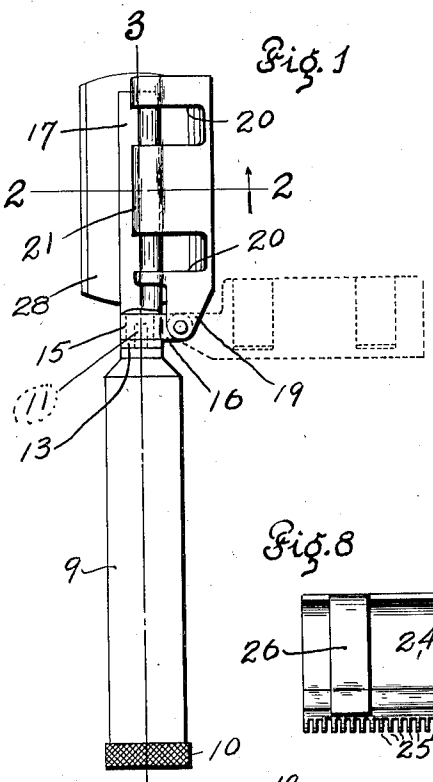


Fig. 1

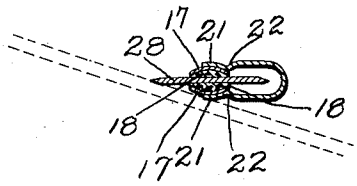


Fig. 2

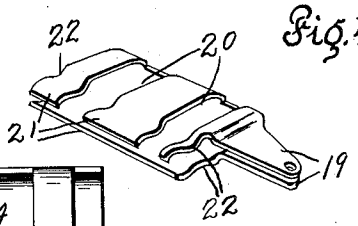


Fig. 4

Fig. 8

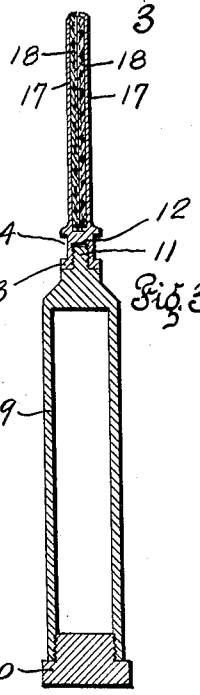


Fig. 3

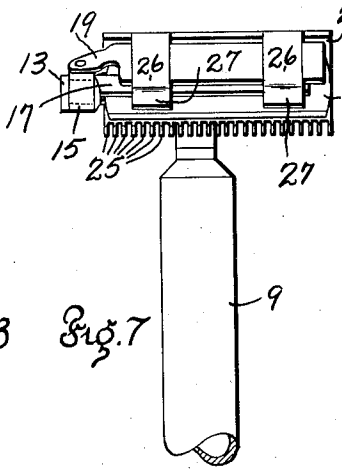


Fig. 7

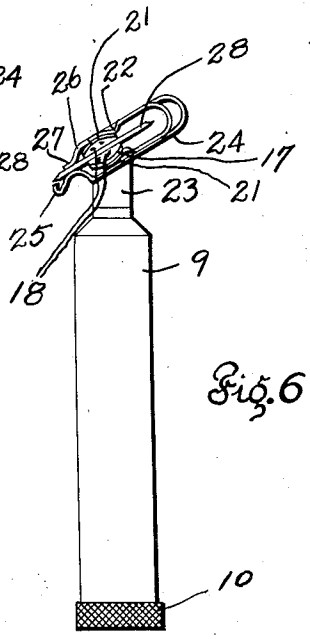


Fig. 6

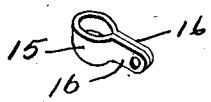


Fig. 5

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UNITED STATES PATENT OFFICE.

THOMAS B. CREWS, OF ST. LOUIS, MISSOURI.

COMBINED SAFETY RAZOR AND BLADE SHARPENER.

Application filed April 13, 1925. Serial No. 22,652.

My invention relates to improvements in combined safety razors and blade sharpeners, and has for its primary object a device which can be used either as a safety razor or as a device to hold the blades while being sharpened and stropped.

A further object is to construct a combined safety razor and blade sharpener in which a double edged blade is designed to be held and which is provided with a pivoted and rotating shield by means of which either edge of the blade can be protected during the stropping, and which is provided with a removable guard, which can be readily placed in position when it is desired to use the device as a razor.

In the drawings:—

Fig. 1 is a plan view of my device showing a blade therein and illustrating the manner of swinging the shield away from the blade by dotted lines.

Fig. 2 is a cross section taken on the line 2—2 of Fig. 1 and illustrating the manner of stropping one side of the blade.

Fig. 3 is a longitudinal section of the handle taken on the line 3—3 of Fig. 1 and showing the device with the shield removed.

Fig. 4 is a perspective view of the shield.

Fig. 5 is a perspective view of the swivel for the shield.

Fig. 6 is a side elevation of my device when arranged as a razor.

Fig. 7 is a front view of the same with part of the handle broken away; and

Fig. 8 is a top plan view of the guard.

In the construction of my device, I employ a handle 9, which is preferably hollow as illustrated in Fig. 3, and which has its open end closed by means of a plug or knob 10. The opposite end of the handle is provided with a screw threaded lug 11, which is designed to be secured in the screw threaded socket 12 formed in the blade holder. The blade holder is provided with the end 13 in which a screw threaded socket is formed and also with a groove 14 in which the swivel 15 is located. This swivel is formed of a piece of sheet metal bent in the form of a circle and is provided with perforated ears 16. The forward portion of the blade holder is flattened so as to be substantially elliptical in shape and is composed of two members 17. These members are spaced apart and have secured therebetween strips of cork or similar material 18. The purpose of the cork it to tightly grip the blade and prevent the same from slipping. Pivotally secured to the ears 16 are ears 19, which are formed integral with the shield. The shield is substantially U shaped in cross section and has its one face provided with slots 20; the purpose of these slots will be explained in detail later. The free edge of the shield is slightly rounded as at 21 so that it will pass partially over the portions 17 of the blade holder. Adjacent the curved portion 21 are longitudinally extending depressions 22, which are also for the purpose of coming in contact with the portions 17 and preventing the shield from being pushed forward and contacting with the edge of the blade. It is to be understood, of course, that the shield is formed of spring material and be stiff enough so that the stropping will not force the shield out of the position illustrated in Fig. 2.

When it is desired to use my device as a razor the handle 9 is unscrewed from the screw threaded socket 12 and secured in a boss 23, which is provided with a screw threaded socket. Secured to the boss 23 is a guard which is substantially U shaped in cross section and which is designed to be slipped over the shield. The portion 24 of the guard is solid as illustrated in Fig. 8 and is provided on its forward edge with a plurality of spaced apart teeth 25. These teeth are for the purpose of preventing the person shaving from cutting himself. The remaining portion of the guard is composed of strips 26, which are of a width to fit in the slots 20 and thus prevent any possibility of the guard shifting while in use. The forward edges 27 of these strips are designed to bear against the blade 28 and to prevent any springing of the edge of the blade when the device is in use. This guard is also made of spring material so that it can be easily attached and detached.

When it is desired to strop a razor blade, the shield is swung into position indicated by dotted lines in Fig. 1, the blade then inserted between the cork filler 18 and securely held therein by means of the members 17, which are formed of spring material so that they will give slightly. After the blade has been thus secured properly in position the shield is swung into position indicated by

solid lines in Fig. 1 and the device is ready for stropping or honing. The blade can now be handled like an ordinary razor blade, that is during the stropping or honing it will not be necessary to lift the blade away from the strop or hone as it can be readily turned over on the shield, the same as an ordinary razor.

When one edge of the blade has been thus sharpened the shield is again moved into position indicated by dotted lines in Fig. 1, the handle given a turn with one hand while the shield is being held with the other, thus bringing the sharpened edge in position to be covered by the shield. The other edge of the blade can now be sharpened in the same manner.

When it is desired to use the device as a razor the guard 24 is placed in position, the handle 9 unscrewed from the blade holder and screwed into the boss 23. Should it be found desirable, the guard can be moved forward or back, thus regulating the degree of closeness of the shave.

It will be seen from the foregoing that with my device a double edged blade can be stropped with the same motion now employed in stropping the old fashioned razor blade, there being absolutely no possibility when turning the blade for reversing the stroke of cutting the strop as is the case where both edges of the blade are exposed.

Having fully described my invention, what I claim is:—

1. A combined safety razor and blade sharpener comprising a blade holder, a shield carried by said holder, a handle removably secured to said holder, a guard detachably secured over said holder and shield, and means for detachably securing said handle to said guard.

2. A device of the class described comprising a holder, a shield pivotally secured to said holder and adapted to cover one edge of a double edge blade, a handle removably secured to said holder, a guard detachably secured over said holder and shield, and means for detachably securing said handle to said guard.

3. A device of the class described comprising a blade holder, a shield pivotally and rotatably secured at one end to said holder whereby said shield can be moved so as to cover either edge of a double edge blade, a handle removably secured to said holder, a guard detachably secured over said holder and shield, and means for securing said handle to said guard.

4. A device of the class described comprising a blade holder having a slit end, strips of cork located in said slit end to frictionally engage with a razor blade, a shield carried by said holder and pivotally secured thereto, adjacent one end, a handle removably secured to said holder, a guard detachably secured over said holder and shield, and means whereby said handle may be attached to said guard.

5. In a device of the class described comprising a blade holder, a swivel carried by said holder adjacent one end, a shield pivotally secured to said swivel, a handle removably secured to said holder, a guard detachably secured over said holder and shield, and means carried by said guard for securing said handle thereto.

6. A device of the class described comprising a blade holder having a slit end, a swivel carried by said holder and adjacent one end thereof, a shield pivotally carried by said swivel, a handle removably secured to said holder, a guard detachably secured over said holder and shield, and means carried by said guard for securing said handle thereto.

7. A device of the class described comprising a blade holder, a swivel located on said holder and adjacent one end thereof, perforated ears formed on said swivel, a shield pivotally secured to said ears, a handle removably secured to said holder, a guard detachably secured over said holder and shield, and means carried by said guard for securing said handle thereto.

8. A device of the class described comprising a blade holder, a shield having slots in one face pivotally and swivelly carried by said holder, a guard detachably secured over said holder and shield, strips carried by said guard and adapted to enter the slots in said shield for preventing side movement of said guard, a handle, and means whereby said handle can be detachably secured to either the holder or the guard.

9. A device for clamping a safety razor blade which comprises a handle member to which a pair of resilient members are connected, a clamping member rotatably mounted on the handle member having a pair of resilient parts which engage the opposite sides of the said resilient members and a portion which serves as a rest for the blade when it is being stropped or honed.

10. In combination, a handle member, a pair of razor blade receiving members connected to the handle member, means for clamping the blade receiving members together comprising a member comprising a collar which turns on the handle and to which the clamping means is connected and having a curved edge and a pair of pinching edges which engage the blade receiving members.

11. In combination, a handle member, a pair of razor blade receiving members connected to the handle member, means for clamping the blade receiving members together comprising a member having a curved edge and a pair of pinching edges which engage the blade receiving members, and

pivotal means connected to the handle for reversing the position of the pinching edges with relation to the edges of the razor blade in the blade receiving members.

12. A device for the purpose described comprising in combination, a handle, means connected to the handle for receiving a safety razor blade, means for clamping the blade in said means, but leaving a cutting edge exposed, the clamping means being pivotally and rotatably connected to the handle whereby the same may be reversed and the other cutting edge exposed.

In testimony whereof I have affixed my signature.

THOMAS B. CREWS.