L. J. ODELL.

SAFETY RAZOR.

APPLICATION FILED JUNE 2, 1910.

996,879. Patented July 4, 1911.

Fig. 2.

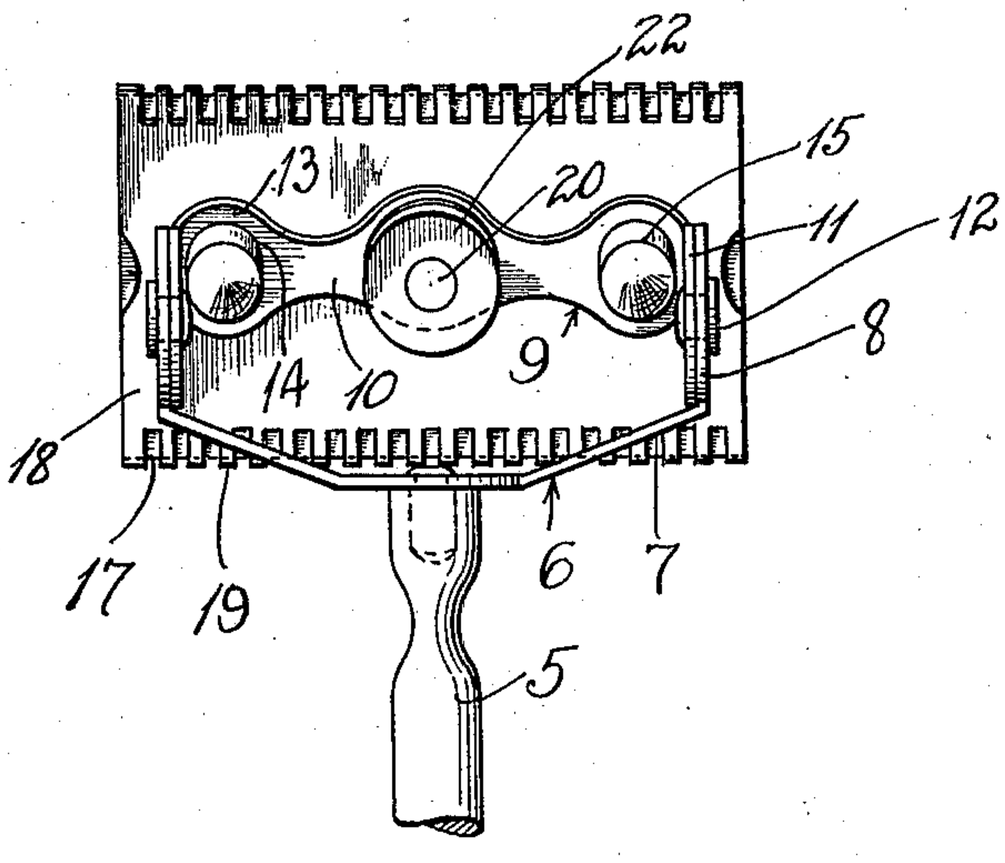


Fig. 1.

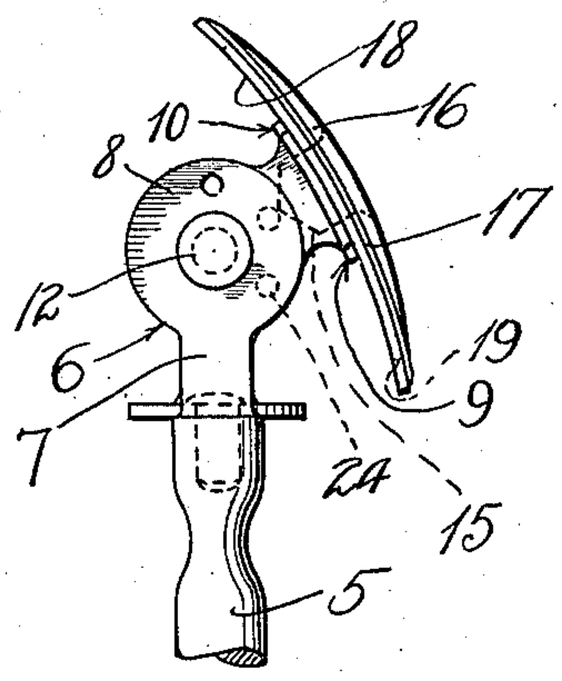


Fig. 4.

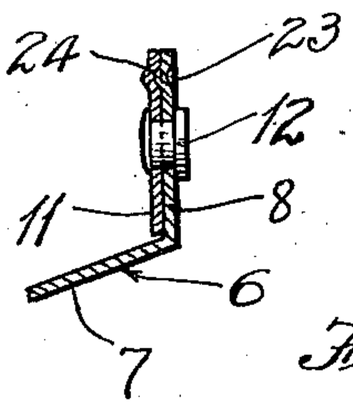


Fig. 3.

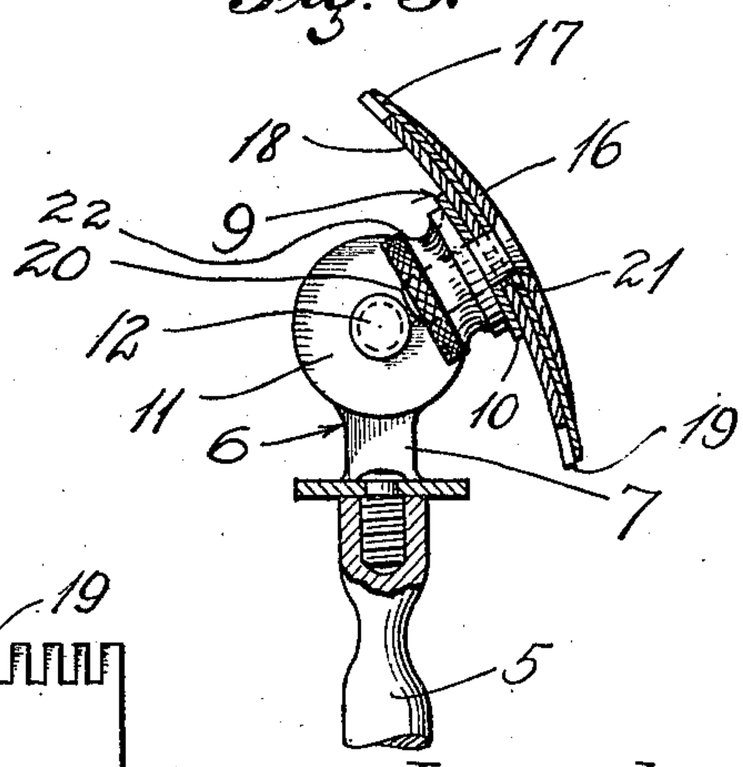
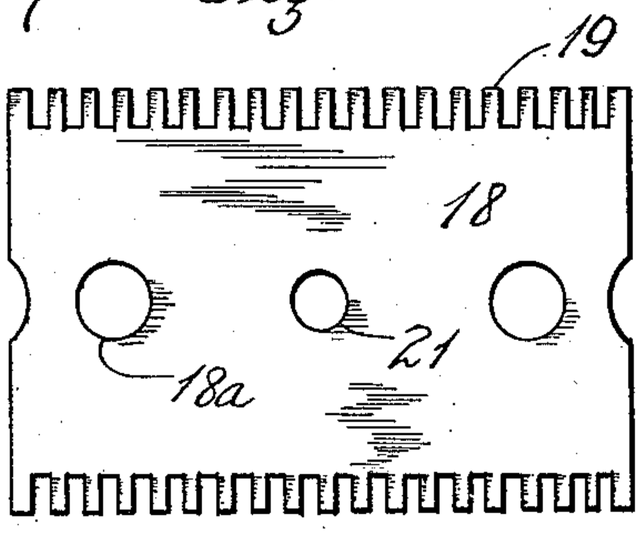


Fig. 5.



Witnesses.

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UNITED STATES PATENT OFFICE.

LEVI J. ODELL, OF GLENDORA, CALIFORNIA, ASSIGNOR TO ODELL MANUFACTURING COMPANY, OF LOS ANGELES, CALIFORNIA, A CORPORATION OF CALIFORNIA.

SAFETY-RAZOR.

996,879. Specification of Letters Patent. Patented July 4, 1911.

Application filed June 2, 1910. Serial No. 564,569.

To all whom it may concern:

Be it known that I, LEVI J. ODELL, a citizen of the United States, residing at Glendora, in the county of Los Angeles, State of California, have invented new and useful Improvements in Safety-Razors, of which the following is a specification.

This invention relates to safety razors and the object of the invention is to produce a razor of this type having improved means for securing the blade in different inclined positions with respect to the longitudinal axis of the handle.

In the drawing which forms a part of the annexed specification, Figure 1 is an edge elevation of safety razor constructed upon the lines mentioned, the handle being broken away. Fig. 2, is a rear elevation of the razor, the handle being broken away. Fig. 3, is a cross section taken through the head of the razor and through the upper portion of the handle, the body of the handle being broken away. Fig. 4, is a cross section showing in detail a means for holding the razor blade in its inclined position. Fig. 5, is a side view of a guard plate and showing the same detached.

Referring more particularly to the parts 5 represents a handle of the razor to the end of which a bracket 6 is attached said bracket having extending arms 7, the bodies of which are slightly inclined in the direction in which the handle extends and the ends of these bars are bent laterally so as to form substantially circular ears 8, which ears are disposed in a plane parallel with the longitudinal axis of the handle. Between these ears 8, a blade holder 9 is supported, said blade holder comprising a longitudinally extending bar 10, the ends of which are bent laterally so as to form swivel heads 11 which are attached pivotally to the ears 8 by means of suitable pins or rivets 12. Near its extremities the bar 10 is formed with enlargements or lobes 13 and these lobes are formed with openings 14 which are adapted to receive spurs 15, which project inwardly from the inner face of the keeper plate 16 which is of dished form presenting its concave side forwardly. This keeper plate 16 clamps the blade 17 between it and a guard plate 18 which is also of dish form and which is provided with openings 18[a] as indicated in Fig. 5, through which the spurs 16 project. This guard plate 18 is provided on its longitudinal edges with guard fingers 19 as shown. On its central axis and at its middle point the keeper plate 16 is provided with a forwardly projecting threaded stud 20 which extends inwardly, and opening 21 formed in the guard plate and through a similar opening formed in the bar 10 and this stud receives a thumb nut 22 which sets against the end side of the bar 10 as shown. This thumb nut forms means for clamping the keeper against the blade and the guard plate.

The blade holder may be swung on the pivots 12 so as to bring it into different inclined positions. In order to enable the blade to be held in different positions the ears 8 are offset at a point so as to form projections or teeth 23 which project inwardly and the adjacent face of the swivel heads 11 are formed with depressions or recesses 24 which are adapted to engage the projections.

As indicated in Fig. 1, I provide several of the recesses 24 and these recesses are arranged circumferentially on the heads which will engage the projections 23 and hold the blade holder in different positions of angular adjustment.

What I claim is:

1. A safety razor having a bracket attached to a handle and having oppositely disposed arms, a bar connecting said arms and pivotally attached thereto, a guard, a keeper coöperating with said guard to hold the razor blade thereagainst, means for clamping said keeper to said guard on said bar, and means formed on said bracket arm and bar for maintaining said bar in different adjusted positions with respect to said arms.

2. A safety razor having a bracket attached to a handle and having bearing arms, a bar having laterally bent ends pivotally attached to said arms, said bar having an opening therethrough, a guard having an opening therethrough, a keeper having a stud passing through the openings in said bar and said guard to clamp the blade on said guard, and means attached to said stud for maintaining the guard and blade in a fixed relation to said bar.

3. A safety razor having a bracket attached to a handle and having upwardly projecting arms, a bar having its ends pivotally attached to said arms, said bar having an opening therethrough, a guard plate

having an opening registering with said opening, a keeper plate having a stud passing through said openings, a nut mounted on said stud for securing the same, means for interlocking said keeper and said bar with said guard and means formed on said bracket arm and bar for maintaining said bar in different adjusted positions with respect to said arms.

4. A safety razor having a bracket attached to a handle and having oppositely disposed arms with ears formed at the extremities thereof, a bar having heads formed at the ends thereof lying against the sides of said ears, said ears having projections formed thereupon adjacent to the side faces of said heads, said heads having depressions coöperating with said projections for holding said bar in different adjusted positions, and means for securing a razor blade to said bar.

In witness that I claim the foregoing I have hereunto subscribed my name this 27th day of May, 1910.

LEVI J. ODELL.

Witnesses:
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GEO. D. WOLFREY.