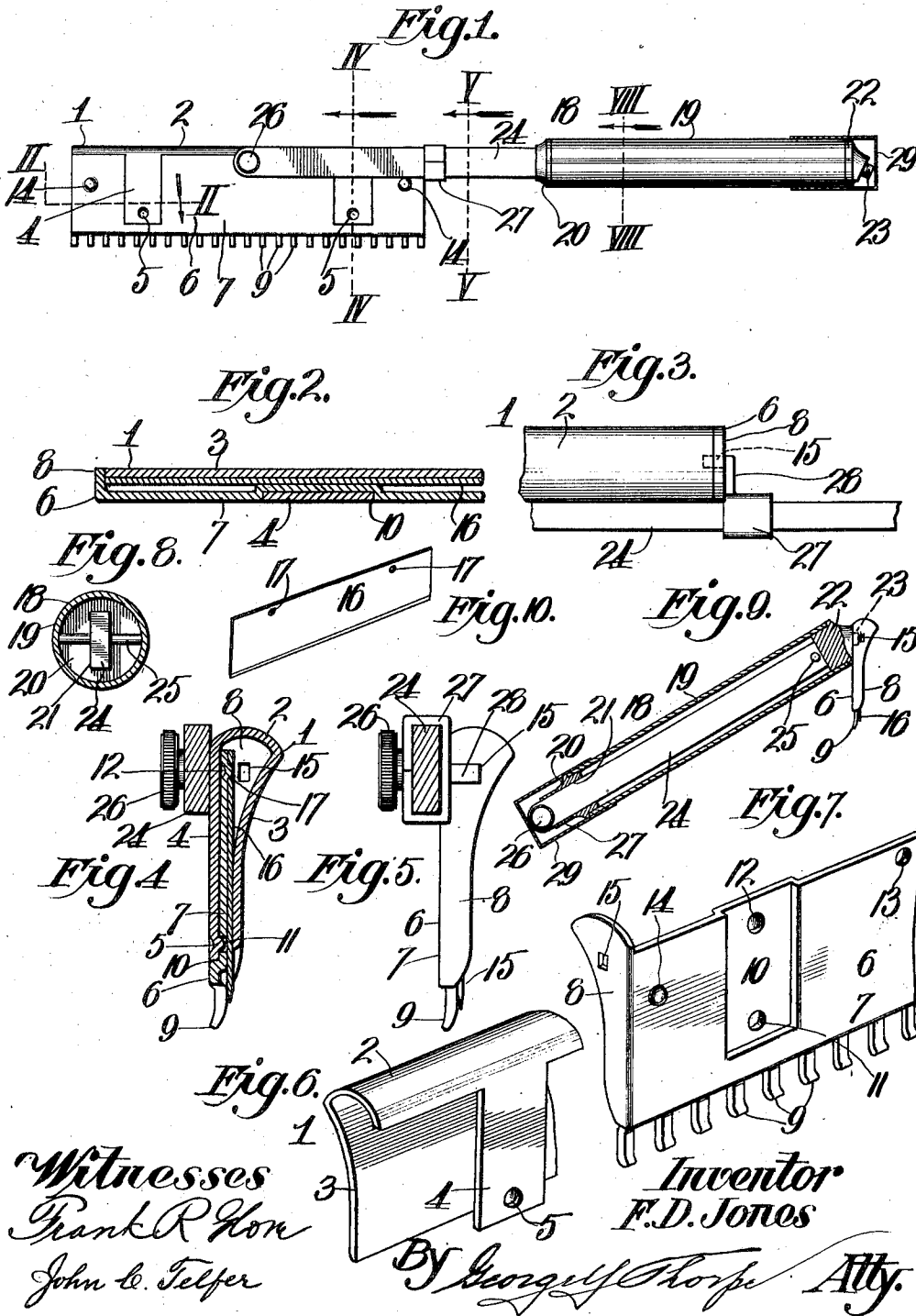


F. D. JONES.
SAFETY RAZOR.
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1,032,609.

Patented July 16, 1912.



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UNITED STATES PATENT OFFICE.

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SAFETY-RAZOR.

1,032,600.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, FLOYD D. JONES, a citizen of the United States, residing at Kansas City, in the county of Jackson and State of Missouri, have invented certain new and useful Improvements in Safety-Razors, of which the following is a specification.

This invention relates to what are known as safety razors, and my object is to produce a razor of this type susceptible of being handled as an ordinary or non-safety razor or as a hoe razor, a further object being to produce a razor of the type outlined which can be easily and quickly converted from one kind into the other, and which is of simple, strong, durable and inexpensive construction.

With these objects in view, the invention consists in certain novel and peculiar features of construction and organization as hereinafter described and claimed; and in order that it may be fully understood reference is to be had to the accompanying drawing, in which:—

Figure 1, is a side view of a safety razor with the handle extending in the same general direction as the blade. Fig. 2, is an enlarged section taken on the line II—II of Fig. 1. Fig. 3, is a plan view of a part of the razor, on the same scale as Fig. 2. Fig. 4, is a section on the line IV—IV of Fig. 1, and on the same scale as Fig. 2. Fig. 5, is a section on the line V—V of Fig. 1, on the scale of Fig. 2. Fig. 6, is a perspective view of part of the blade and guard holder. Fig. 7, is a perspective view of a fragment of the guard. Fig. 8, is an enlarged section taken on the line VIII—VIII of Fig. 1. Fig. 9, is a reduced view showing the razor arranged as a hoe, and the handle in longitudinal section. Fig. 10, is a perspective view of the razor blade.

In the said drawing, 1 is a holder, consisting of a plate bent to form an arched top, and a wall 3 and pair of tongues 4, depending from the inner and outer margins of the top, and said tongues are provided near their lower ends with protuberances 5. The guard 6, is also formed from a plate and consists of a flat body 7, provided at its ends with a pair of inwardly-projecting flanges 8, and, by preference, with depending teeth 9 along its lower edge, sitting slightly inward of the body 7 and curving slightly outward and downward, as shown

most clearly in Figs. 4, 5, and 7. At suitable points, the body 7 is pressed inwardly to provide recesses or grooves 10, to snugly receive the tongues of the holder, and the parts pressed inward are provided with holes 11, to receive the protuberances 5 of the said tongues, and with inwardly-projecting protuberances 12. The body is also formed near its upper edge, with a threaded opening 13, located centrally between the recesses or grooves 10, and near its ends and in a lower plane than said opening 13, is formed with outstanding protuberances 14, and the flanges 8, are formed with openings 15. The blade 16, sharpened at its lower edge, is provided with a pair of openings 17, to receive the protuberances 12, of the said recessed or grooved parts of the holder.

The handle 18, is telescopic and is constructed as follows: 19, is a cylinder provided at one end with a head 20, having an angular opening 21, and at its opposite end with a head 22, having a bolt-extension 23, standing at an angle of approximately forty-five degrees to the cylinder and susceptible of being screwed into the opening 13, of the guard 6. A bar 24, extends slidingly and nonrotatively through the opening 21 of head 20, and is provided within the cylinder, with an enlargement or cross-pin 25, which prevents the entire withdrawal of the bar through the said head when lengthening the handle, and also aids in preventing lateral movement of the bar by engagement with the inner side of the cylinder. The opposite end of the bar is equipped with a horizontally-disposed clamping screw 26, for engagement at times with the threaded opening 13 of the guard, to clamp the bar flatly against the outer side of the guard and of one of the tongues 4, of the holder, and mounted frictionally on the said bar, is a slidable sleeve 27, having an angle arm 28 projecting from its inner side, (see Fig. 3) for engagement with either of the openings 15, of the flanges 8 of the guard.

A cap 29, is provided to fit frictionally upon either end of the cylinder 19 and hide from view the head 22 and bolt-extension 23, or the head 20, bar 24, clamping screw 26 and sleeve 27, accordingly as the handle is arranged as shown in Fig. 1 or Fig. 9, it being noted that the cap will prevent the bar sliding outward from the cylinder when occupying the position shown by Fig. 9.

The parts of the razor are operatively assembled as follows: The blade is fitted against the inwardly-pressed parts of the guard with the protuberances 12 of the latter engaging the openings 17 of and holding the blade against slippage endwise or edge-wise. The tongues 4 of the holder are then fitted in the recesses or grooves of the guard and said parts are slid together until the upper edge of the latter abuts against the opposing edge of the top of the holder, the resilience of the tongues enabling them to spring outwardly sufficiently to permit the parts to be arranged in the relation mentioned, said protuberances finally engaging the holes 11 of and holding the guard reliably in position, it being noted by reference to Figs. 2 and 4, that the wall 3 and tongues 4 of the holder, cooperate in clamping the guard and blade in position and rigidly together, the parts being so proportioned that the blade projects below the wall 3 and its cutting edge just below the point where the teeth of the guard begin to curve outward and downward, as clearly shown in Fig. 4, this relation of said parts being necessary to eliminate danger of the operator cutting himself.

If it is desired to handle the razor in the same manner as an ordinary one, viz., a non-safety razor, the operator secures the bar 24 to the guard by screwing the clamping screw 26 in the threaded opening 13, and then adjusts the handle as shown in Fig. 1, if the operator desires to hold the razor in his right hand. If he desires to use his left hand, he swings the handle to a position at the opposite end of the holder, it being noted that the swinging adjustment of the handle is limited by the stops or protuberances 14. The handle is secured in the position described by sliding the sleeve 27 along the bar until its arm 28 enters the adjacent opening 15 of the guard and thus securely locks the handle against accidental movement.

If it is desired to handle the razor like a hoe, viz., in the manner customary with most safety razors, the bar 24 is detached from the guard and slid into the cylinder until the sleeve 27 abuts against the head 20 and the clamping screw strikes the said sleeve. The bolt-extension is then screwed into opening 13 of the guard until the handle is clamped firmly in place and is projecting outward and downward, the cap being also fitted upon the outer end of the handle.

From the above description it will be seen that I have produced a convertible safety razor embodying the features of advantage enumerated and which is obviously

susceptible of modification without departing from the spirit and scope of the appended claims.

Having thus described the invention, what I claim as new and desire to secure by Letters Patent, is:—

1. In a safety razor, a holder consisting of a top and a wall depending from one side margin of the top and a plurality of tongues depending from the other side margin of the top, said tongues occurring inward of the ends of the top and wall and having inwardly-projecting protuberances near their lower ends; a guard fitting at its upper edge against the edge of the top from which the tongues depend and provided with recesses receiving said tongues and openings receiving said protuberances; said guard also having inwardly projecting protuberances near its upper margin; a cutting blade fitting between the recessed portions of the guard and the wall of the holder and provided with openings receiving the protuberances of the guard, and a handle by which to hold and operate the razor.

2. A safety razor, comprising a holder consisting of a top and a wall and tongues depending therefrom, a guard fitting at its upper edge against the outer edge of the top and provided at its outer side with vertical recesses receiving said tongues and at its ends with inwardly-projecting flanges provided with openings, a cutting blade interposed between and clamped in position by said wall and guard, a handle pivotally secured at one end to and extending longitudinally of the guard at the outer side of the same and a sleeve slidably mounted on said handle and provided with an arm fitting in the opening of one of the said flanges of the guard.

3. A safety razor, comprising a holder consisting of a top and a wall and tongues depending from the top, a guard fitting at its upper edge against the outer edge of the top and provided with recesses receiving the said tongues and with a pair of stops at its outer side and near its ends, a cutting blade interposed between and clamped in position by said wall and guard, a handle pivoted to the guard between said stops and adapted to strike and rest against either of them and a sleeve slidably mounted upon said handle and provided with an arm interlocking with said guard.

In testimony whereof I affix my signature, in the presence of two witnesses.

FLOYD D. JONES.

Witnesses:

T. A. WOOLSEY,
P. H. DODGE.