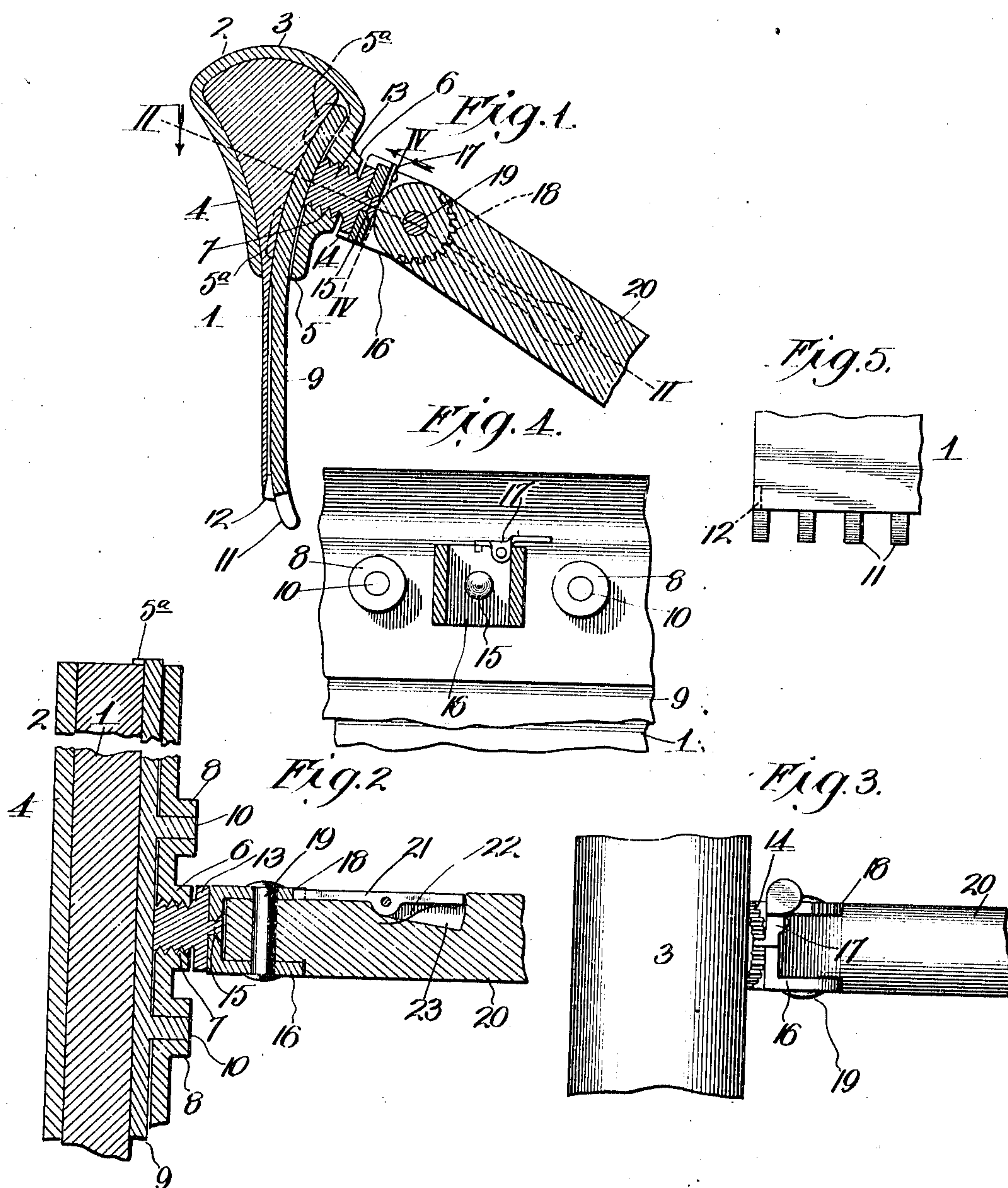


F. D. JONES.
SAFETY RAZOR.
APPLICATION FILED JAN. 11, 1909.

991,998.

Patented May 9, 1911.



Witnesses
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UNITED STATES PATENT OFFICE.

FLOYD D. JONES, OF KANSAS CITY, MISSOURI.

SAFETY-RAZOR.

991,998.

Specification of Letters Patent.

Patented May 9, 1911.

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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 safety razors, and my object is to produce a device of this character having a universally-adjustable handle to enable the operator to closely shave any part of his face without danger of cutting a contiguous part.

A further object is to produce a safety razor equipped with a blade of standard type in cross-section, that is a blade corresponding to that of an ordinary razor though it may vary therefrom in size.

A further object is to produce a razor having a guard for reliably clamping the blade in the sheath or holder and incapable of oscillatory movement.

A still further object is to produce a guard provided with lugs overlapping the ends of the cutting edge of the blade to render it impossible for either corner of the latter to scratch or cut the face of the operator.

Another object is to produce a safety-razor of simple, strong, durable and inexpensive construction.

With these objects in view and others as hereinafter appear, 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 central vertical section of a safety razor embodying my invention, on a magnified scale. Fig. 2, is a section on the line II—II of Fig. 1. Fig. 3, is a plan view of the razor. Fig. 4, is a section on line IV—IV of Fig. 1. Fig. 5, is a front view of the lower portion of the blade and guard to disclose one of the lugs of the guard to protect the face from being cut or scratched by the adjacent corners of the blade.

Referring now to the drawing in detail, in which like reference characters indicate corresponding parts, 1 indicates a razor blade of the usual hollow-ground type, the blade being of suitable length and in other respects substantially the same as the cutting portion of an ordinary razor blade.

2 indicates a holder or sheath comprising

a top portion 3 and downwardly converging walls 4 and 5, said walls being curved by preference to correspond substantially to the hollow sides of the blade. The wall 5 is preferably thickened or bossed at its center as at 6, and is provided with a threaded passage 7 and at opposite sides of said boss 6 it is provided with a pair of similar bosses 8, to slidably receive the guide pins 10 projecting rearwardly from the guard 9, which fits within the holder or sheath against the rear side of the blade and corresponds approximately in curvature to said blade and the rear wall of the holder or sheath.

By preference that portion of the guard below the holder or sheath is spaced slightly from the blade, and at its lower margin said guard diverges slightly with respect to and depends below the cutting edge of the blade, the said depending portion being in the form of a plurality of teeth 11, and in order to guard against any possibility of the corner of the blade cutting one's face, said guard is provided at its ends with small lugs 12 fitting squarely against the rear face of the blade coincidental with its sharp corners.

13 is a clamping-screw mounted in the threaded opening of the boss 6 and clamping the guard firmly against the blade 1 and the latter reliably in position, the guide pins and bosses serving to guard against any twisting movement of the guard so as to compel the same to engage the blade in a proper and most effective manner for holding the same against slippage, it being noted in this connection that the cross-sectional form of the blade and its holder or sheath prevents downward movement of the blade.

The head of the clamping screw is peripherally toothed as at 14 and rotatably secured upon the projecting portion 15 thereof is a bracket 16, provided with a spring-actuated pivoted catch 17, for engagement with one of the notches of the toothed periphery 14 to lock the bracket rigid with the clamping-screw. The ends of the arms of the bracket 16 are semi-circular in form and one of them is notched as at 18 and connecting said arms centrally of their curved edges is a cross pin 19 which forms a pivot for the handle 20, and in order to secure the handle in the desired position or at the desired angle with respect to the blade, it is equipped with a pivoted catch 21 adapted to be held by a spring 22 in engagement with one of

the notches 18, the catch 21 preferably occupying a recess 23, the spring being also arranged in said recess so as to make it impracticable for the handle when once
 5 "set" to be moved through the accidental disengagement of the catch from the engaged notch 18. By pivoting the handle to the bracket as explained, the former can be adjusted through approximately one hundred and eighty degrees and secured at any
 10 desired point within such adjustment and thus enable the operator to more conveniently and effectively handle the blade in the shaving operation. It will also be apparent that the handle is not only adjustable transversely of the blade but can also be
 15 so adjusted as to be capable of standing at any desired angle from the clamping-screw, this adjustment being effected by first tripping catch 17 and turning the bracket on the clamping-sleeve and permitting said
 20 catch to reengage the clamping-screw when the desired adjustment is attained, this rotatable adjustment of the bracket obviously determining the plane in which the handle
 25 proper may be swung upon its pivot 19.

In assembling the blade, it is slid endwise into the holder or sheath until arrested by stops 5^a, projecting forward from one end
 30 of wall 5, such arrest giving assurance to the person in control that the clamping-screw may be screwed home to secure the blade in position without danger of snapping the blade by unequal pressure, such as would be
 35 applied if only one of the lugs engaged the blade.

From the above description it will be apparent that I have produced a razor possessing the features of advantage enumerated in the statement of the object of the
 40 invention and I wish it to be understood that I do not desire to be restricted to the exact details of construction shown and described as obvious modifications will suggest themselves to one skilled in the art.

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

1. A safety razor, comprising a blade, a
 50 holder receiving the blade and provided in its rear wall and at opposite sides of its center with parallel guide holes, a guard between the blade and the rear wall of the holder provided with rearwardly projecting
 55 pins extending through said guide holes, means carried by the holder for clamping

the guard and blade tightly together and in fixed relation to the holder, a bracket swiveled to said means, means to secure the bracket against accidental swivel movement, 60 a handle pivoted to said bracket, and means for securing the handle at the desired point of pivotal adjustment with respect to said bracket.

2. A safety razor, comprising a blade, a 65 holder receiving the blade and provided in its rear wall and at opposite sides of its center with parallel guide holes, a guard between the blade and the rear wall of the holder provided with rearwardly projecting 70 pins extending through said guide holes, means carried by the holder for clamping the guard and blade tightly together and in fixed relation to the holder, a bracket swiveled to the said means, means to secure the 75 bracket against accidental swivel movement, and a handle secured to said bracket.

3. A safety razor, comprising a blade, a holder receiving the blade, a guard between the blade and the rear wall of the holder, 80 means for clamping the guard against the blade to secure the latter firmly in position, a bracket rotatably secured to the clamping means, means to secure the bracket rigidly to the clamping means, a handle pivoted to 85 the bracket, and means for securing the handle at any desired point in its pivotal adjustment.

4. A safety razor, comprising a blade, a holder receiving the blade, a guard between 90 the blade and the rear wall of the holder, a clamping-screw carried by the holder to clamp the guard firmly against the blade and the latter securely in position and provided with a notched head, a bracket rotatably carried by the clamping screw and provided with a catch engaging said notched head, said bracket having parallel arms rounded at their rear ends and one of them notched at said end, a pivot pin carried by 100 said bracket, a handle pivoted on said pin between the arms of the bracket, and a spring-actuated catch pivoted to the handle and yieldingly engaging one of the notches in the notched arm of the bracket. 105

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

FLOYD D. JONES.

Witnesses:

H. C. RODGERS,
 G. Y. THORPE.