

No. 672,204.

Patented Apr. 16, 1901.

J. A. BUTLER.
SAFETY RAZOR.

(Application filed Jan. 28, 1901.)

(No Model.)

Fig. 1

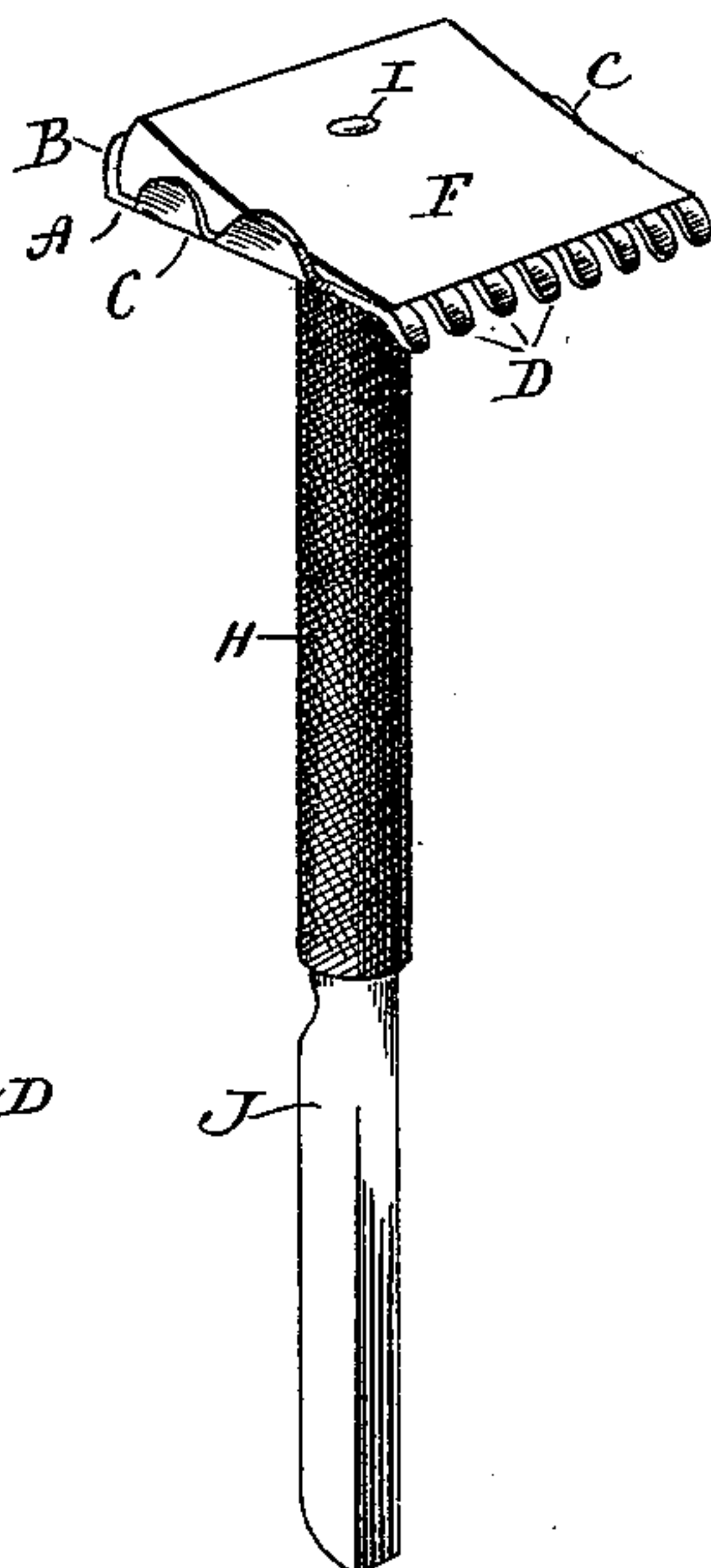


Fig. 2

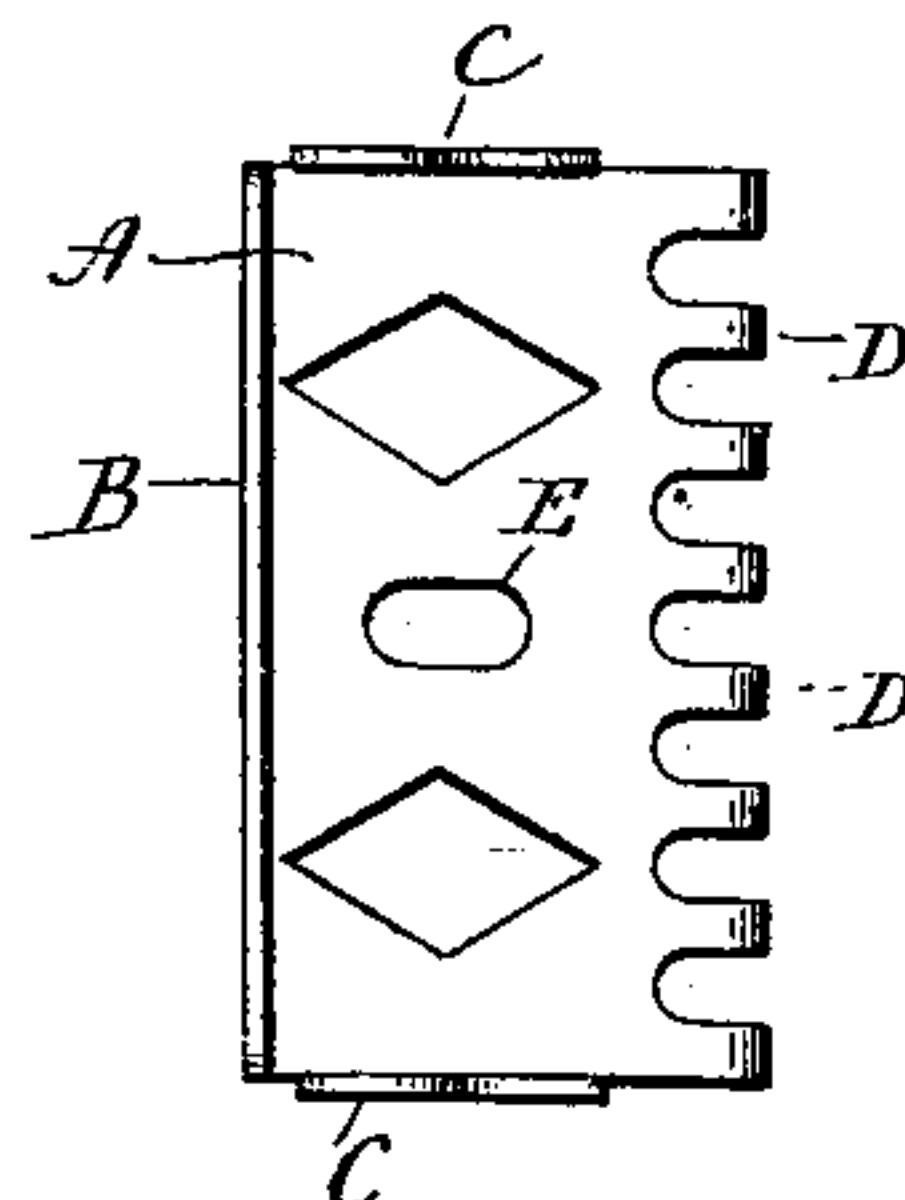


Fig. 3

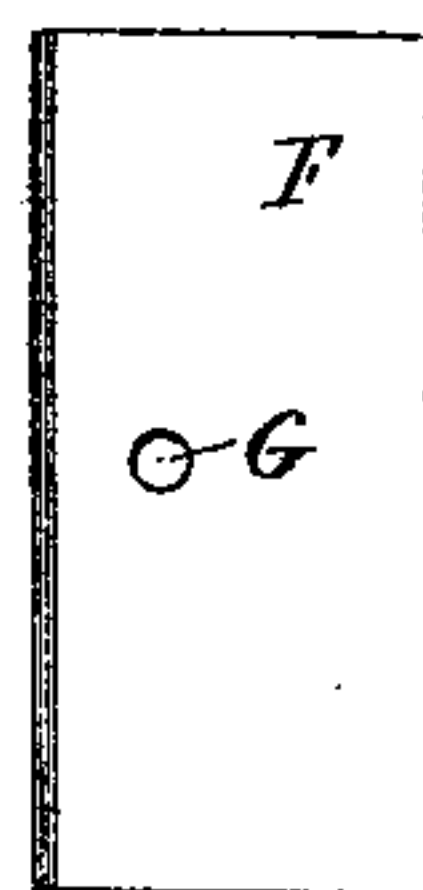


Fig. 4

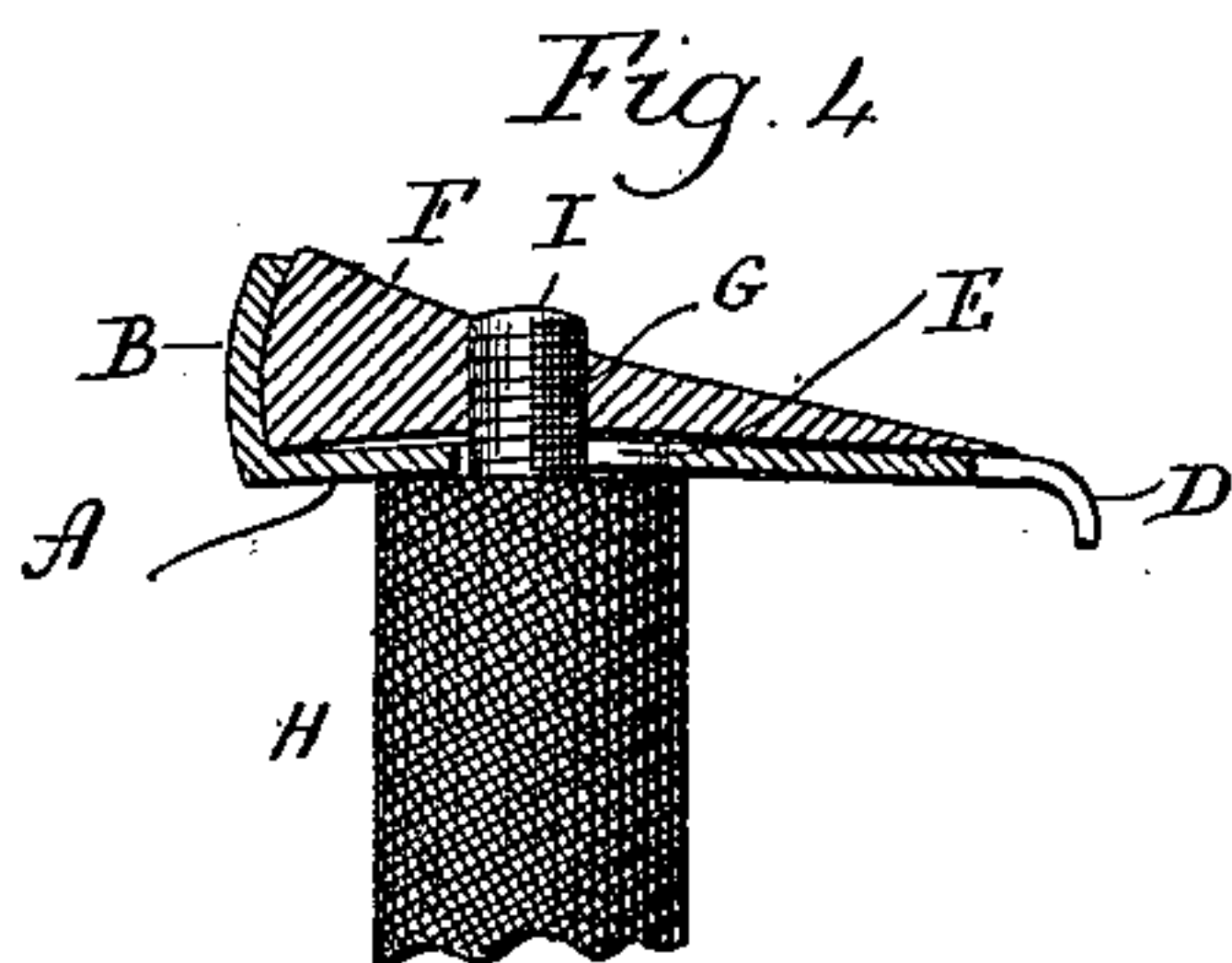
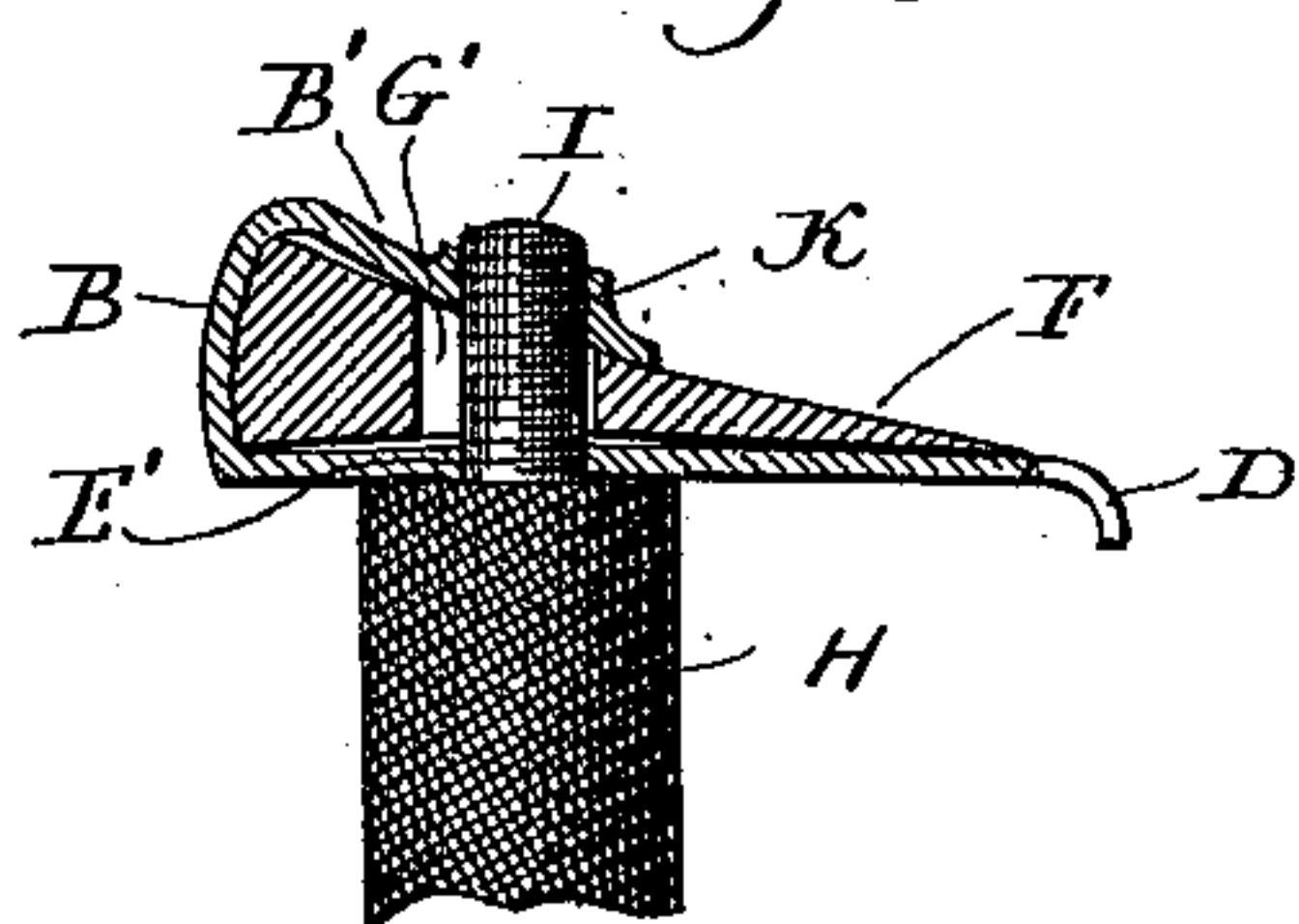


Fig. 5



Witness.
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By atty Seymour & Carr

UNITED STATES PATENT OFFICE.

JOHN A. BUTLER, OF SOUTHTON, CONNECTICUT, ASSIGNOR TO THE
SOUTHTON CUTLERY CO., OF SAME PLACE.

SAFETY-RAZOR.

SPECIFICATION forming part of Letters Patent No. 672,204, dated April 16, 1901.

Application filed January 28, 1901. Serial No. 45,039. (No model.)

To all whom it may concern:

Be it known that I, JOHN A. BUTLER, of Southington, in the county of Hartford and State of Connecticut, have invented a new
5 Improvement in Safety-Razors; and I do hereby declare the following, when taken in connection with the accompanying drawings and the letters of reference marked thereon, to be a full, clear, and exact description of the
10 same, and which said drawings constitute part of this specification, and represent, in—

Figure 1, a perspective view of a safety-razor constructed in accordance with my invention; Fig. 2, a top or plan view of the plate
15 with the blade removed; Fig. 3, a plan view of the blade; Fig. 4, a transverse central section through the plate and blade; Fig. 5, a modification.

This invention relates to an improvement
20 in safety-razors, the object being a simple arrangement which permits the ready adjustment of the blade and convenience in separating the parts for packing; and it consists in the construction as hereinafter described,
25 and particularly recited in the claims.

As herein shown, I employ a blade-holder comprising a plate A, having a rear flange B, side flanges C, and bowed teeth D at its forward edge, the teeth being arranged as usual
30 in safety-razors. In the center of the plate is a slot E. The blade F is of substantially usual form, corresponding in length to the distance between the side flanges C, and of suitable width to rest against the rear flange
35 B and project to a sufficient extent over the teeth D. In this blade is a central threaded opening G, which when the blade is in place registers with the slot E in the plate. To secure the blade to the plate, I form the upper
40 end of the handle H with a threaded stud I, adapted to pass upward through the slot E in the plate and into the threaded opening G in the blade and so that by turning the stud into the blade the plate will be clamped between the blade and the handle, and by reason of the slot E the plate may be moved to
45 a greater or less extent, as desired, to have the teeth project beyond the blade or as may be necessary by the wearing away of the edge
50 of the blade. The handle H may be of any

approved construction; but as herein shown it is tubular end is adapted to have inserted into its lower end a sheet-metal finger-piece J, which increases the length of the handle and enables a firm grip to be had; but obviously
55 various forms of handles may be formed.

Instead of forming the blade with a threaded opening for engagement with the threaded stud on the handle the blade may be formed with a slot G', as shown in Fig. 5 of the
60 drawings, and the plate with an opening E', corresponding to the diameter of the stud I, and the flange B extends upward corresponding to the thickness of the back of the blade and provided with a lip B', extending over
65 the blade, as shown in Fig. 5, the said lip having a threaded opening K, through which the stud I extends and whereby the blade may be clamped between the lip and the plate, the slot in the blade permitting it to be moved
70 forward as occasion requires.

By the term "extending into the blade," as hereinafter used, I wish to be understood as including a blade having a threaded opening for engagement with the threaded stud on the
75 handle or a solid blade through which the said stud extends.

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

1. A safety-razor, comprising a plate having rear and side flanges and forwardly-extending teeth, a blade adapted to rest upon the upper face of said plate, and a handle
85 having a stud projecting upward through the plate and the blade whereby the blade may be clamped to the plate, substantially as described.

2. A safety-razor comprising a plate having teeth at its forward end, and a centrally-
90 arranged slot and blade adapted to rest upon the upper face of said plate and formed with a threaded opening, and a handle provided at its upper end with a threaded stud adapted to pass through said plate and into en-
95 gagement with the blade, substantially as described.

3. A safety-razor, comprising a plate provided at its rear and sides with upwardly-extending flanges, and at its forward edge with
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teeth, and having a centrally-arranged slot,
a blade adapted to rest upon the upper face
of said plate, and having a threaded opening
registering with the slot in the plate, and a
5 handle formed at its upper end with a threaded
stud, adapted to pass through said slot and
into engagement with the said blade, substan-
tially as described.

In testimony whereof I have signed this
specification in the presence of two subscrib- 10
ing witnesses.

JOHN A. BUTLER.

Witnesses:

J. H. BALDWIN,
THOMAS F. WELCH.