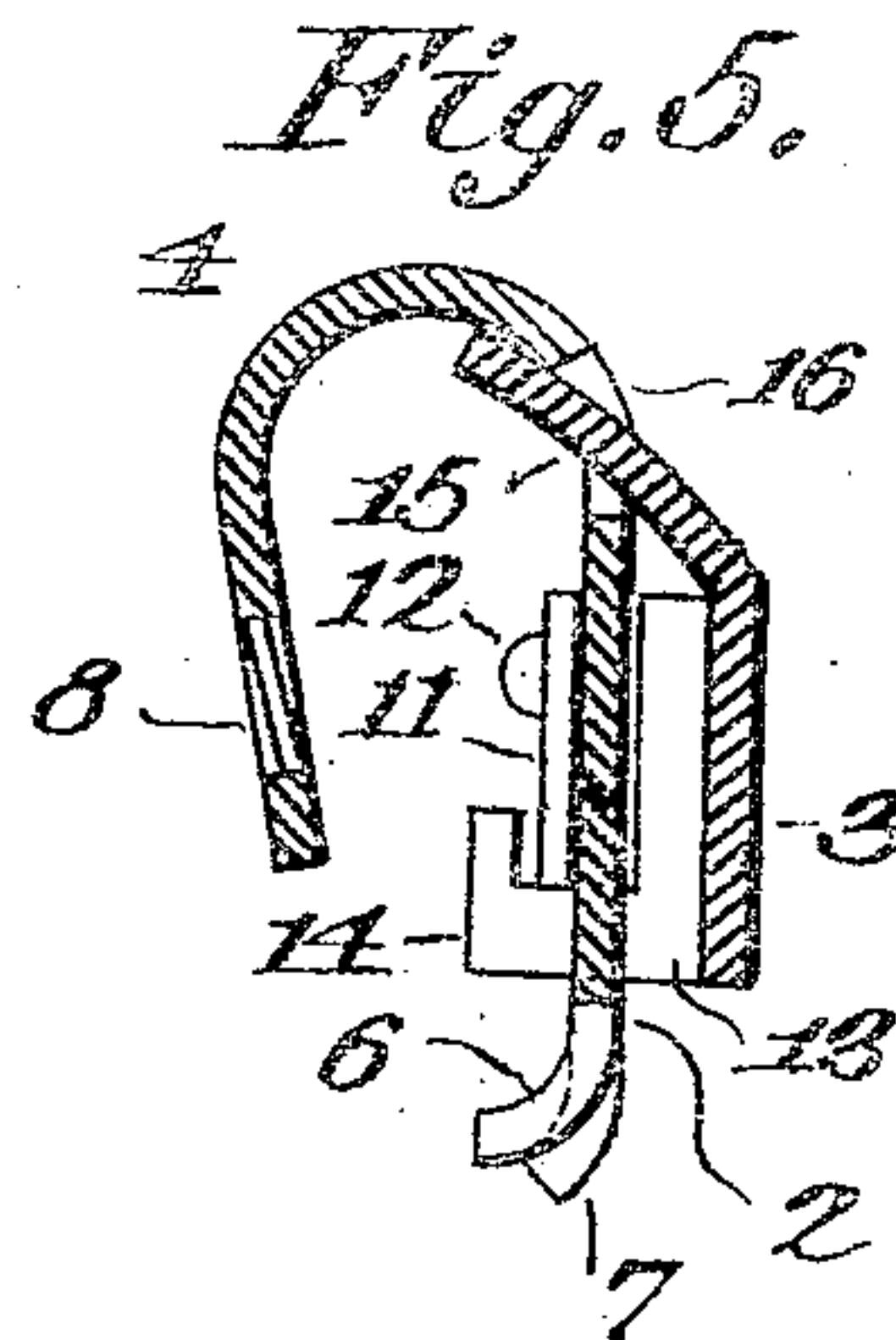
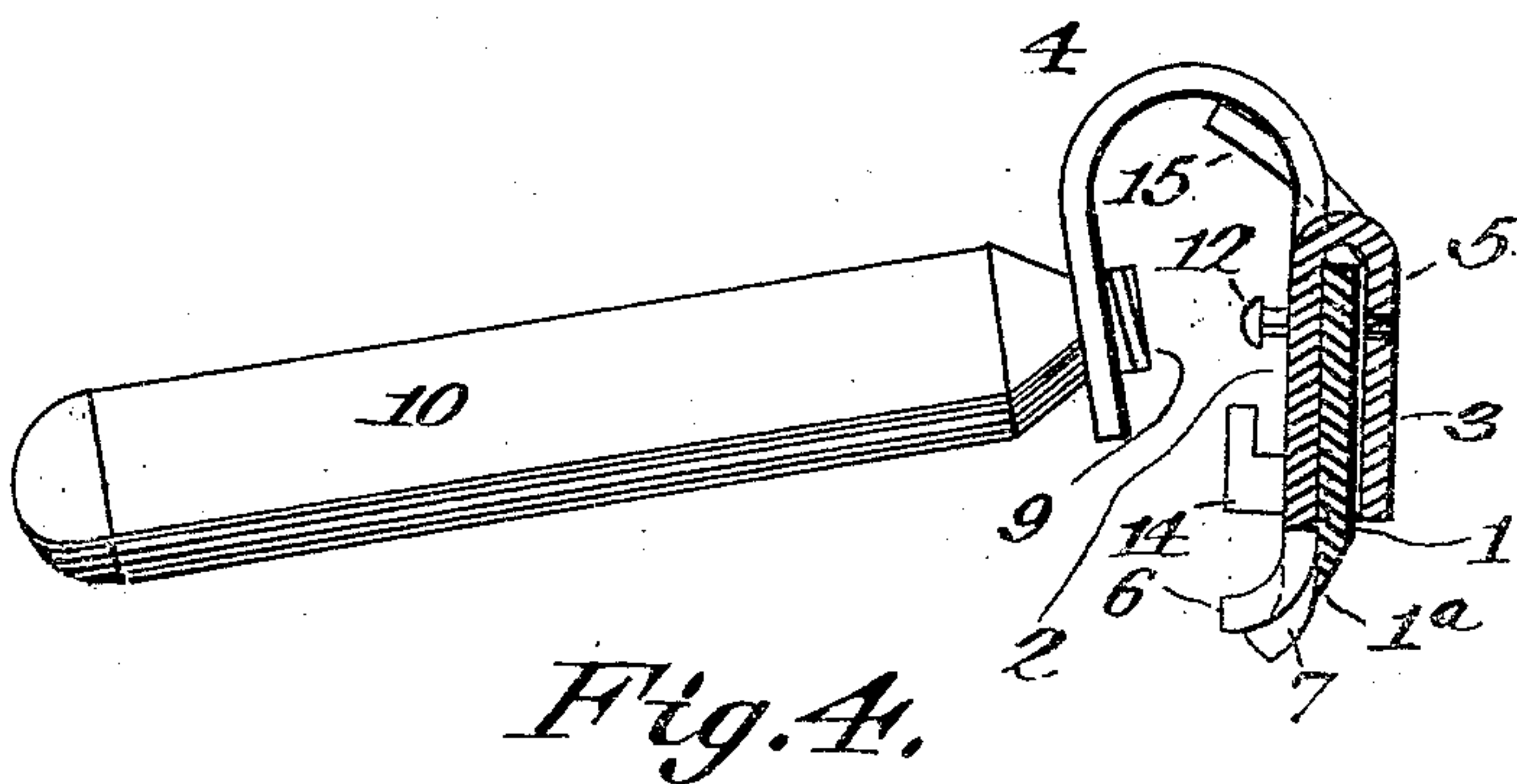
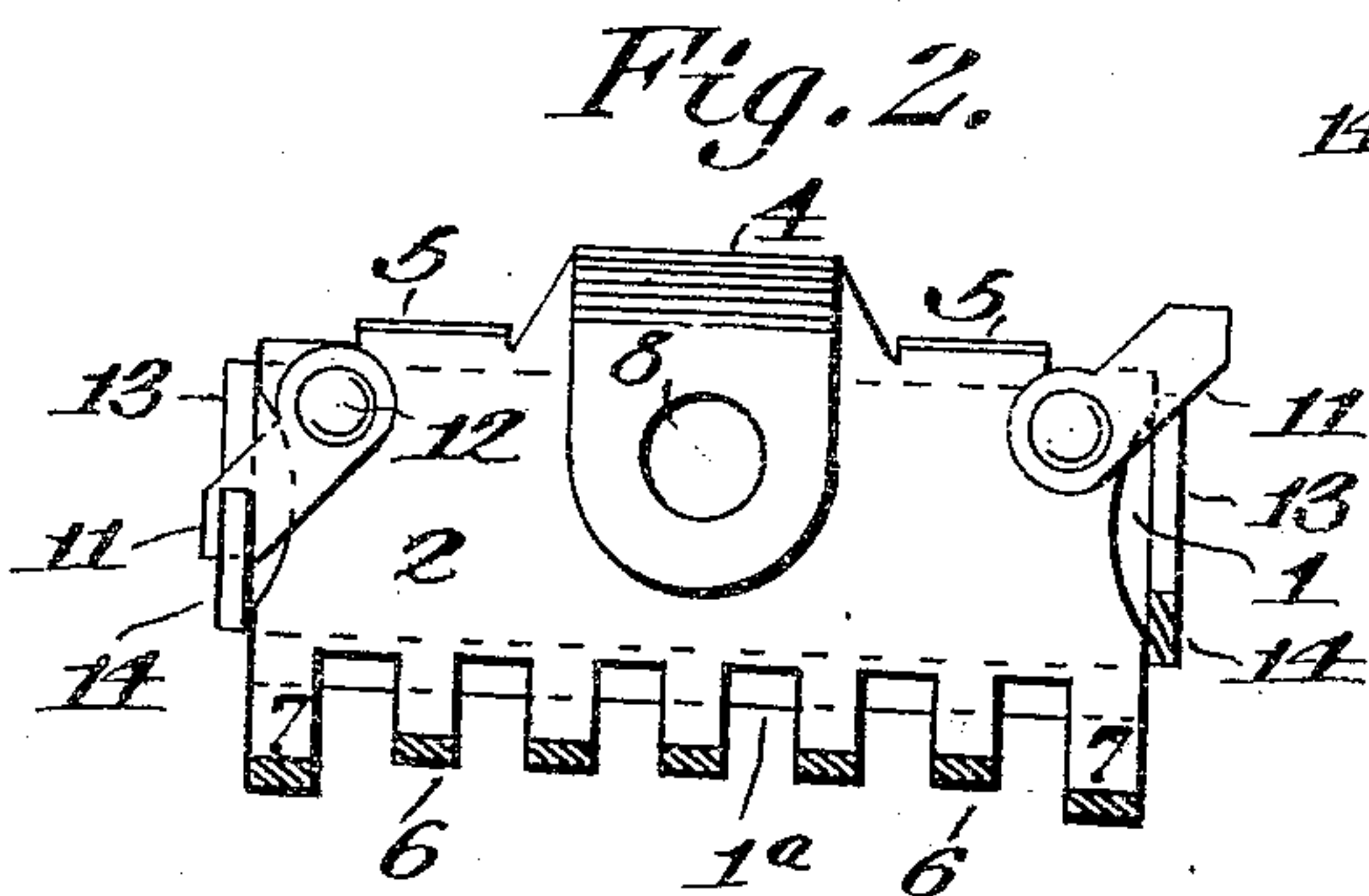
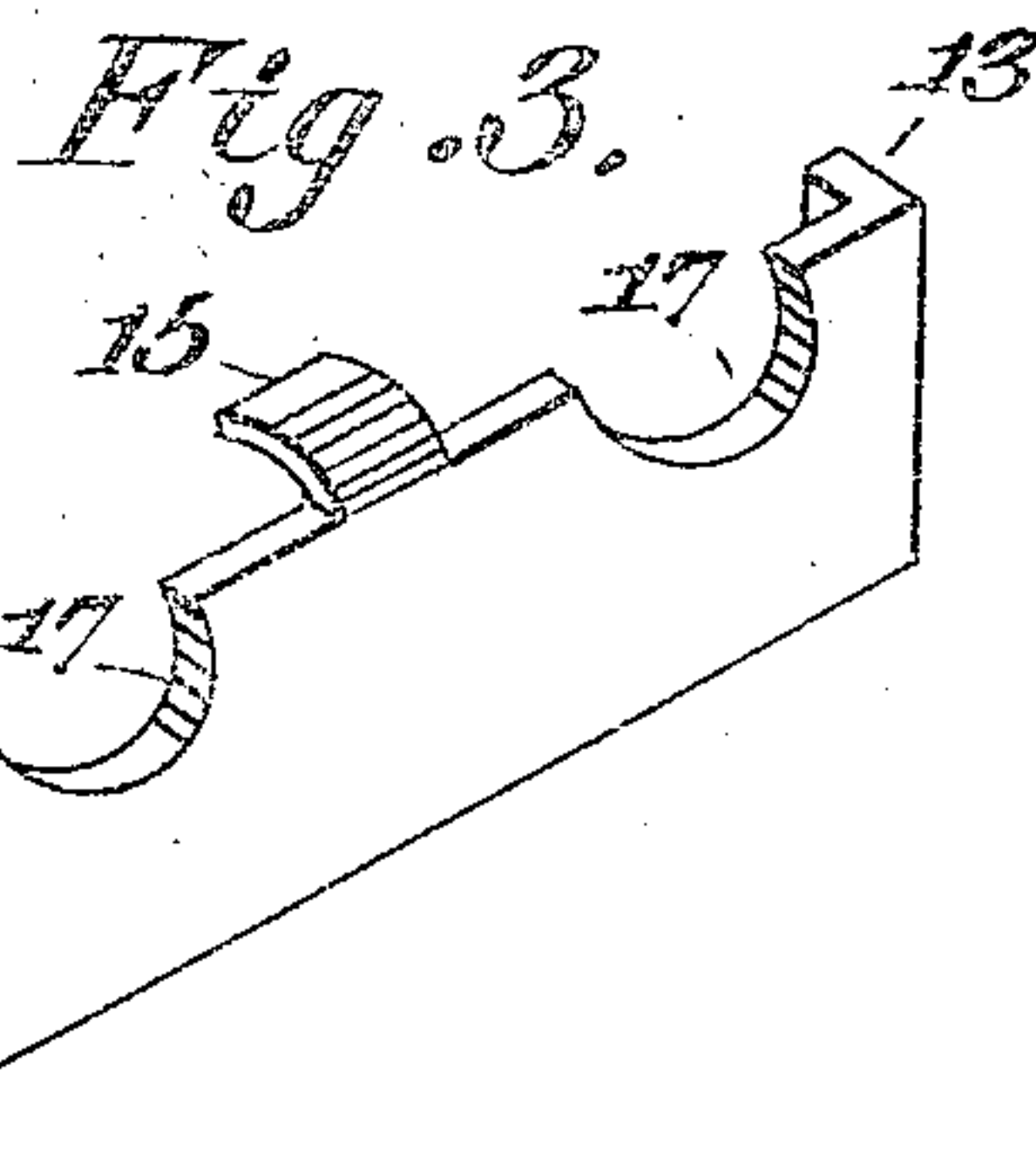
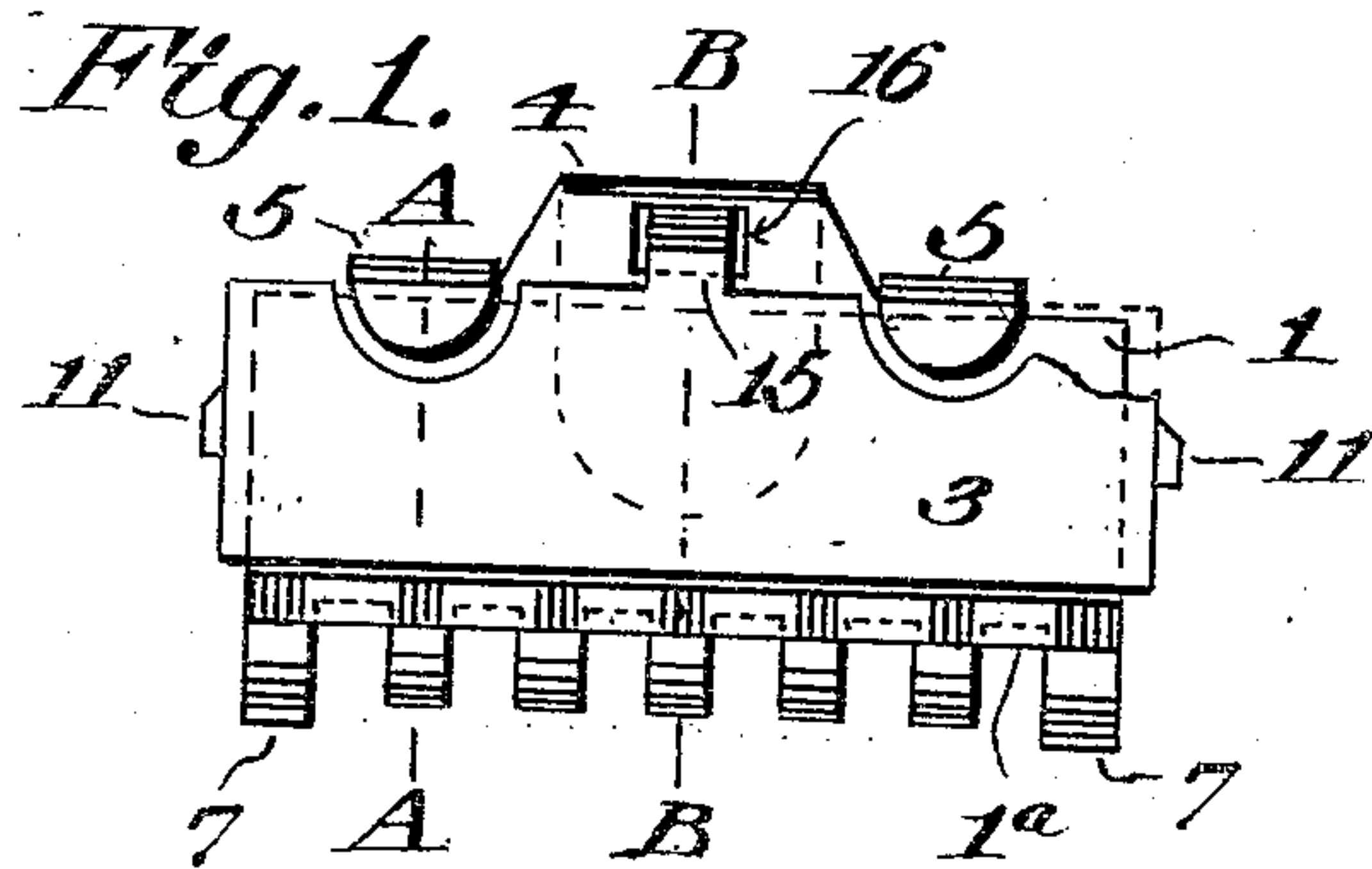


P. H. UNSINGER.
SAFETY RAZOR.

APPLICATION FILED FEB. 15, 1908.

912,633.

Patented Feb. 16, 1909.



WITNESSES:

J. S. Miller.

Carl J. Heffner.

Philip H. Unsinger

INVENTOR

BY Frank J. Fuller

ATTORNEY

UNITED STATES PATENT OFFICE.

PHILIP H. UNSINGER, OF FREMONT, OHIO.

SAFETY-RAZOR.

No. 912,633.

Specification of Letters Patent.

Patented Feb. 16, 1909.

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To all whom it may concern:

Be it known that I, PHILIP H. UNSINGER, a citizen of the United States, residing at Fremont, in the county of Sandusky and State of Ohio, have invented certain new and useful Improvements in Safety-Razors, of which the following is a specification.

The purpose and object of my improvement is to provide a razor of the class named, which has fewer parts; is less complicated; and easier to set together and take apart, than other razors of that kind; and furthermore in my improvement the blade is so held as to stiffen it throughout its length.

Referring now to the drawings: Figure 1 represents a front view; and Fig. 2 a rear view, the handle being removed. Fig. 3 represents in perspective the retaining plate, a front view of which is seen in Fig. 1. Fig. 4 represents a cross section, on the line A A of Fig. 1. Fig. 5 represents a cross section, on the line B B, of Fig. 1; both slightly enlarged.

Coming to a more specific description of my invention: Generally speaking the blade 1 is clamped and held, between a guard plate 2, and a retaining plate 3. The guard plate is provided with a rearwardly projecting shank 4, and a pair of retaining fingers 5 which project forward from the upper edge of said plate. Said fingers are made to reach over and clasp the back edge of the razor blade. While said fingers aid in holding the back edge of said blade, their chief function is that of aligning its cutting edge 1^a with reference to the guard edge of said plate. The lower or guard edge of said plate is cut away in the usual manner with such guards, causing the same to have a comb edge. The projecting ends of the teeth 6 of said comb, are curved rearward and away from said blade, in the usual manner, so as to render the knife edge of said blade free for shaving purposes.

The two end teeth 7, as represented in Figs. 4 and 5 while given a similar rearward curve, are given a longer tangent, and so made to bear close against said knife edge, for the purpose of preventing the operator from cutting himself with the corners of said blade. Said shank 4 has a perforation 8, which is intended to receive the threaded end 9 of a handle 10. Said handle may be connected otherwise if desired, but from preference, I use the screw thread for

the purpose of making said handle detachable. For purpose, hereafter explained, said plate 2 is provided with latches 11, which are pivoted to the rear side thereof by a stud 12, as shown best in Fig. 2. Said blade being in position, with the back edge thereof clasped by the fingers 5 it is otherwise held rigidly in place by means of the retaining plate 3. In order that said blade may be held against any lateral movement, I make said blade, and the plate 2, of equal length; and to engage said ends I provide said plate 3 with flanges 13. In order that said plate may be made to bear flat against said blade and thus not only hold the same, but stiffen it, upon the one hand I provide said flanges with rearwardly extending latch keepers 14, made to engage and cooperate with said latches 11; and upon the other, I provide the upper edge of said plate with a rearwardly curved finger 15, made to enter an aperture 16 in said shank 4, and, with the back thereof, to bear against the inner or under surface of said shank. When in position, the inner side of said finger is made to rest upon the lower edge of said aperture 16; and thus said plate is held from falling, and thereby said finger is held against disengagement with the inner surface of said shank. Suitable recesses 17 are cut in the upper edge of said plate 3 to receive the fingers 5. In Fig. 2, one of the latch keepers 14 is cut away from its flange 13, leaving a sectional view of the projecting portion. In Fig. 1 a part of the plate 3 is broken away to show the blade 1.

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

1. An improvement in safety razors, comprising: a razor blade, clamped and held between a combed guard-plate upon the one side thereof, and a retaining plate upon the other; in combination with said plates, and screwless means for clamping and holding said blade therebetween, a part of which means, performs the further function of aligning the knife edge of said blade with reference to the guard edge of said guard plate, the back edge of said guard plate being provided with a rearwardly curved, and handle-connecting shank, made integral therewith, substantially as set forth.

2. An improvement in safety razors comprising: a razor blade, clamped and held between a shanked guard-plate upon the one side thereof, and a retaining plate upon the

other, in combination with said plates, and means for clamping and holding said blade therebetween, which comprises: a flanged end, and latchkeeper, for each of the ends of
5 said retaining plate, together with a cooperating latch, one for each such keeper, and which is pivoted to the rear side of said guard plate; and a finger which rises from the upper edge of said retaining plate,
10 which said finger curves rearward and is

made to enter an aperture in said shank, and when in position, to have the back thereof engaged by said shank; substantially as set forth.

In testimony whereof I affix my signature 15
in presence of two witnesses.

PHILIP H. UNSINGER.

Witnesses:

FRANK J. TUTTLE,
CARL J. HEFFNER.