

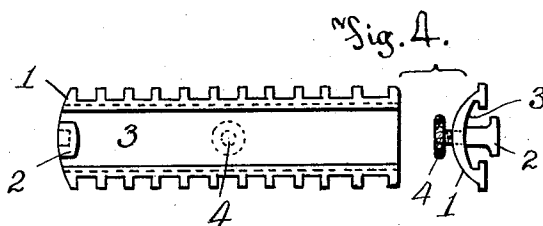
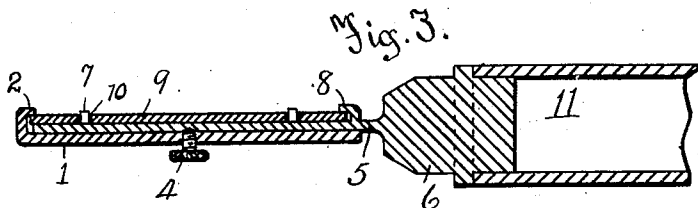
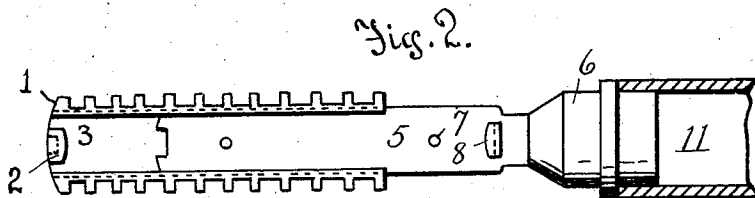
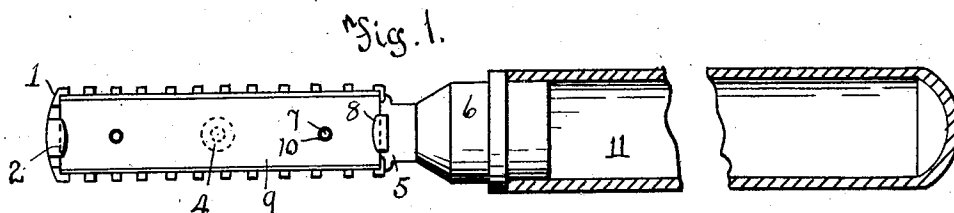
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PATENTED SEPT. 10, 1907.

F. H. ARNOLD & E. D. BECKER.

SAFETY RAZOR.

APPLICATION FILED MAR. 15, 1907.



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UNITED STATES PATENT OFFICE.

FREDERICK H. ARNOLD AND ELLSWORTH D. BECKER, OF READING, PENNSYLVANIA; SAID
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SAFETY-RAZOR.

No. 865,747.

Specification of Letters Patent.

Patented Sept. 10, 1907.

Application filed March 15, 1907. Serial No. 362,562.

To all whom it may concern:

Be it known that we, FREDERICK H. ARNOLD and ELLSWORTH D. BECKER, citizens of the United States, residing at Reading, in the county of Berks and State of Pennsylvania, have invented certain new and useful Improvements in Safety-Razors, of which the following is a specification.

This invention relates to improvements in safety razors and the object of the invention is to provide a novel means of securing the cutting blade to the guard plate.

The invention is intended more particularly as an improvement on Letters Patent No. 845,389 issued to us under date of February 26th, 1907.

In the device referred to we secured the blade to the guard by means of two lugs, one of which was capable of being turned so as to either release or engage the end of the blade.

In the present device we also use two lugs to secure the blade to the guard. In this case however the guard is made of two members, one of which slides longitudinally on the other, and each guard member is provided at one end with a lug, between which the blade is held. The guard members are secured against relative movement by a set screw.

The invention is more fully described in the following specification and clearly illustrated in the accompanying drawing, in which:—

Figure 1 is a plan view of the razor, closed. Fig. 2 shows the same view, open. Fig. 3 is a longitudinal central sectional view. Fig. 4 is a detail view of the sliding guard member.

The numeral 1 designates the guard plate. This plate is formed with the usual teeth along either side. A hook 2 is formed at the outer end of the plate and a central longitudinal depression 3 is formed in its entire length. This plate carries a set screw 4 at about its center, which screw passes through the plate and is adapted to bear against the under surface of the stationary member of the guard, 5. This stationary guard member 5 is formed with a tapered plug 6 on its inner end and with positioning pins 7 on its upper face. A hook 8 is also formed on its upper face at its inner end.

The numeral 9 designates the cutting blade. This

blade is provided with perforations 10 and is adapted to rest on the guard member 5, the perforations 10 registering with the pins 7 thereon. The inner end of the blade will be engaged by the hook 8 and the opposite end by the hook 2. The plug 6 is made with varied outside diameters and is adapted to be engaged by a tubular handle 11 at either of its ends.

When it is desired to place a blade in position, the set screw 4 is slightly turned, thus permitting the sliding guard member 1 to move longitudinally on the member 5. When this member has been moved slightly, thus increasing the distance between the hooks 2 and 8, the blade is placed on the member 5 and the parts closed; the screw is then tightened up, thus securing the guard members against movement, and the blade is securely held in position, being engaged at both ends by the hooks 2 and 8. The handle 11 may be removed from the rear end of the plug when the razor is not in use and placed over the guard plate, incasing it and engaging the plug at its opposite end.

Having thus fully described our invention, what we claim and desire to secure by Letters Patent is:—

1. In a safety razor the combination of a guard plate comprising a sliding member and a stationary member, said sliding member having a longitudinal central depression, a hook on its outer end and a centrally disposed set screw, and said stationary member being adapted to slide in said depression and having a hook on its inner end, positioning pins on its upper face and a tapered plug formed on the end thereof, a perforated blade adapted to be secured between said hooks and a tubular handle adapted to engage either end of said plug while lying on the same plane with the blade.

2. In a safety razor the combination of a two-part guard plate, one member of which is formed with a longitudinal depression and the other member adapted to slide therein, a hook formed on the inner end of one member and a hook on the outer end of the other member, means for securing said members against relative movement, a perforated blade adapted to be held between said hooks, and a hollow handle adapted to engage and incase said guard plate.

In testimony whereof we affix our signatures, in presence of two witnesses.

FREDERICK H. ARNOLD.
ELLSWORTH D. BECKER.

Witnesses:

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