

No. 838,762.

PATENTED DEC. 18, 1906.

F. H. ARNOLD.  
SAFETY RAZOR.

APPLICATION FILED FEB. 3, 1906.

Fig. 1.

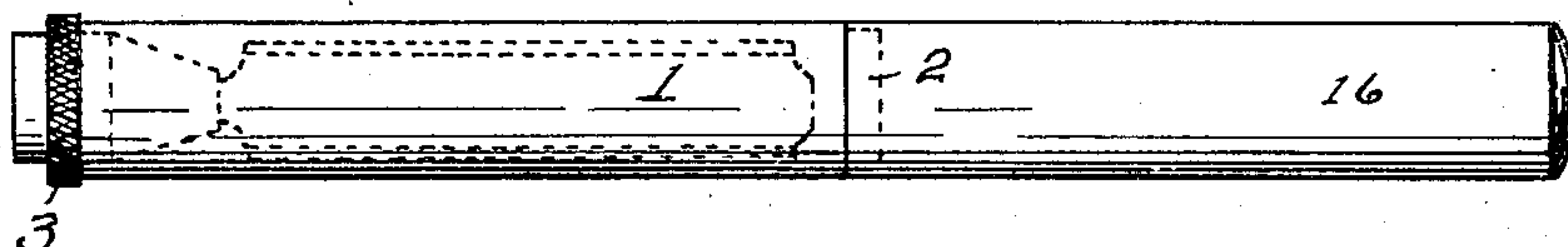


Fig. 2.

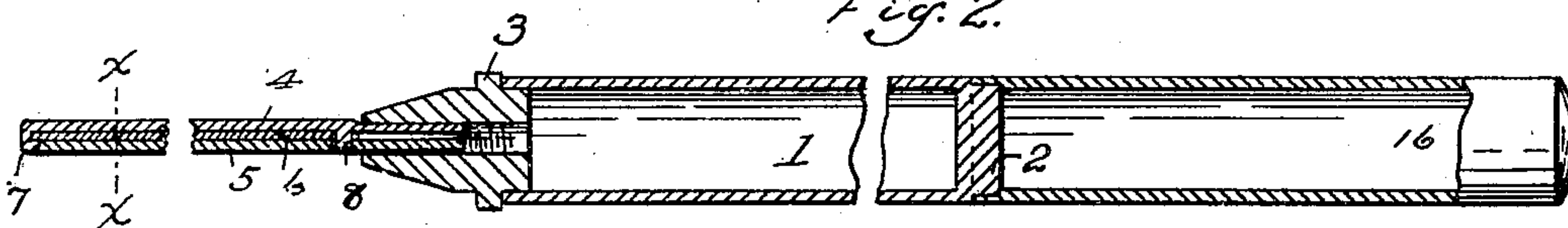


Fig. 3.

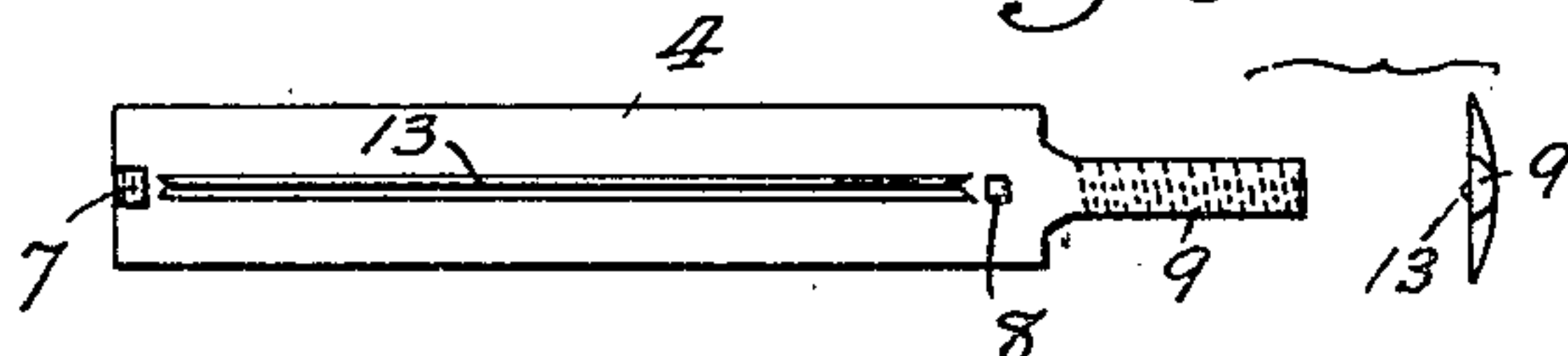


Fig. 6.

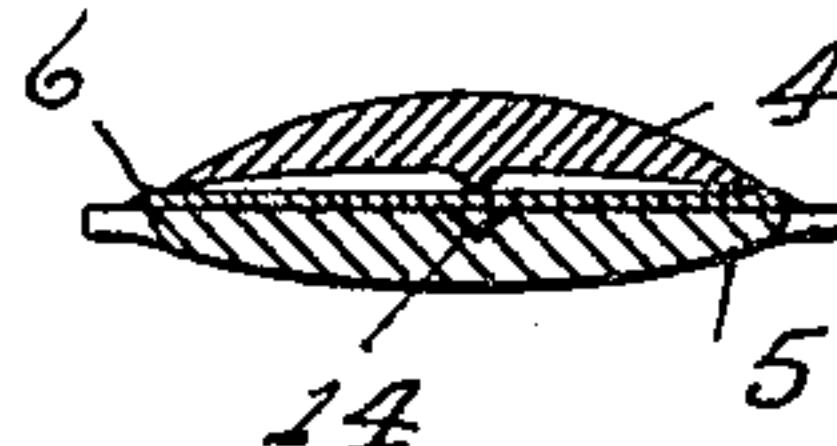


Fig. 4.

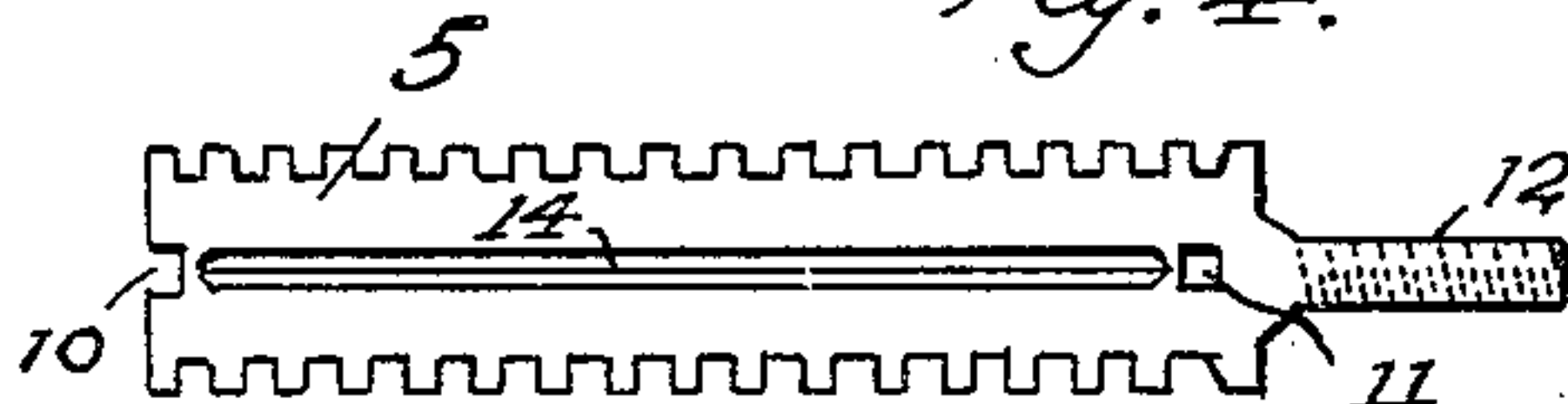
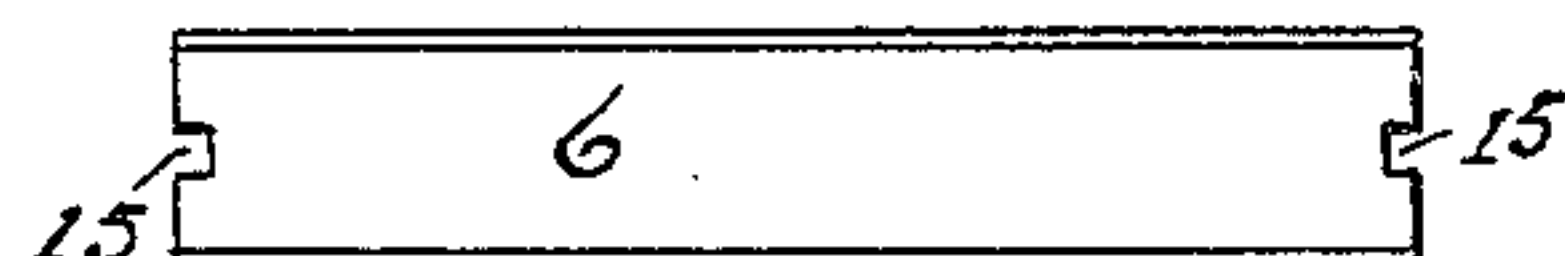


Fig. 5.



WITNESSES:

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# UNITED STATES PATENT OFFICE.

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## SAFETY-RAZOR.

No. 838,762.

Specification of Letters Patent.

Patented Dec. 18, 1906.

Application filed February 3, 1906. Serial No. 299,278.

*To all whom it may concern:*

Be it known that I, FREDERICK H. ARNOLD, a citizen 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 my present invention is to provide a device of such arrangement and dimensions that it may be easily carried in the vest-pocket without inconvenience.

The present device is intended more particularly as an improvement on the devices shown and described in my pending applications, Serial Nos. 275,514 and 290,701.

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

Figure 1 shows my device complete closed. Fig. 2 is a longitudinal sectional view of the device open and ready for use. Fig. 3 is a detail view of the backing-plate. Fig. 4 is a detail view of the guard-plate. Fig. 5 is a detail view of the blade. Fig. 6 is a cross-sectional view taken on line *xx* of Fig. 2 enlarged.

The numeral 1 designates a tubular casing having a reduced rear end 2. The numeral 3 designates a cone-shaped plug adapted to fit into the open end of said casing. This plug is reversible, as both its ends are adapted to engage said casing. The plug is screw-threaded internally.

The numeral 4 indicates the backing-plate, and 5 the guard-plate.

6 designates the razor-blade.

The backing-plate 4 is formed with an angled hook 7 at its outer end and a lug 8 near its rear end. The plate terminates in a tapered half-round externally-screw-threaded stem 9. The guard-plate is formed with a recess 10 at its outer end adapted to be engaged by the hook 7 and an opening 11 near its rear end adapted to receive the lug 8. This plate is also formed with a corresponding half-round stem 12. The backing-plate is formed with a central longitudinal V-shaped rib 13, extending nearly its entire length, and the guard-plate is formed with a registering V-shaped longitudinal depression 14. The blade is formed with a recess 15 at either end adapted to register with the hook 7 and the lug 8. The blade is placed

between the backing-plate and the guard, the hook and lug entering the end recesses and engaging the openings 10 and 11 in the guard-plate. The half-round stems are then inserted in the screw-plug, and the drawing up of said screw-plug will compress the plates, and the V-shaped rib will tend to draw the outer edges of the blade into proper adjustment with relation to the guard-teeth.

The numeral 16 designates a cap adapted to fit onto the rear end of the casing 1. This cap is of sufficient length to carry a supply of reserve blades. When the razor is not in use, the plug is inserted in the casing with the plates inside thereof, as shown in Fig. 1, making a compact device. To use the razor, the plug is withdrawn and replaced in the casing in reverse position, as in Fig. 2. The cap 16 may be dispensed with when an additional supply of blades is not required.

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

1. In a device of the character described, two plates, one of which is provided with a longitudinal depression and the other with a corresponding rib, a blade adapted to be clamped between said plates, means for securing together said plates at one end, and means located at the opposite end for holding them compressed.

2. In a safety-razor, a guard and a clamping-plate, one of which is provided with a central longitudinal depression and the other with a central longitudinal rib, a blade adapted to be clamped between said guard and plate, means for securing together said guard and plate at one end, and means located at the opposite end for compressing and holding them.

3. In a safety-razor, a guard and a clamping-plate, one of which is provided with a substantially V-shaped longitudinal depression and the other with a corresponding rib, a blade adapted to be clamped between said guard and plate, means for securing together said guard and plate at one end, a plug located at the opposite end adapted to compress them, and a tubular handle adapted to receive either end of said plug.

4. In a safety-razor a razor-blade, a pair of clamping-plates, one of which is formed with a central longitudinal V-shaped rib and a hook at its outer end, and the other with a corresponding V-shaped depression and a recess at its outer end for engaging said hook,

extensions formed on the inner end of said plates and a screw-threaded plug adapted to engage said extensions and compress said plates and a tubular handle adapted to engage  
5 either end of said plug.

5. In a safety-razor a guard having a central longitudinal V-shaped depression, a recess at its outer end and a tapered half-round, screw-threaded extension at its inner  
10 end, a backing-plate having a corresponding longitudinal V-shaped rib, a hook at its outer end and a tapered half-round screw-

threaded extension at its inner end, a razor-blade having a central recess at either end adapted to be held between said plate and  
15 guard and means for compressing said plate and guard.

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

FREDERICK H. ARNOLD.

Witnesses:

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ED. A. KELLY.