

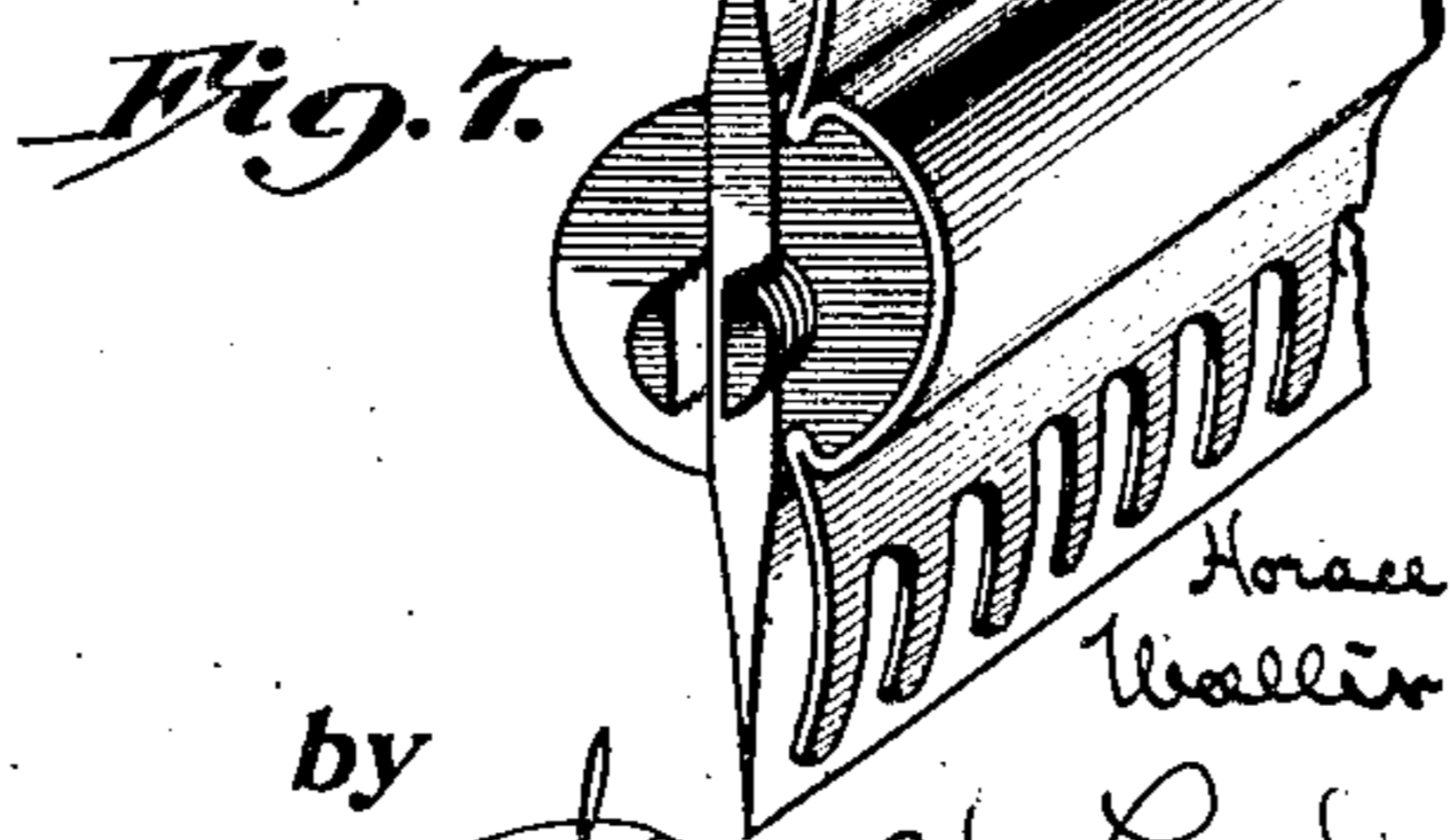
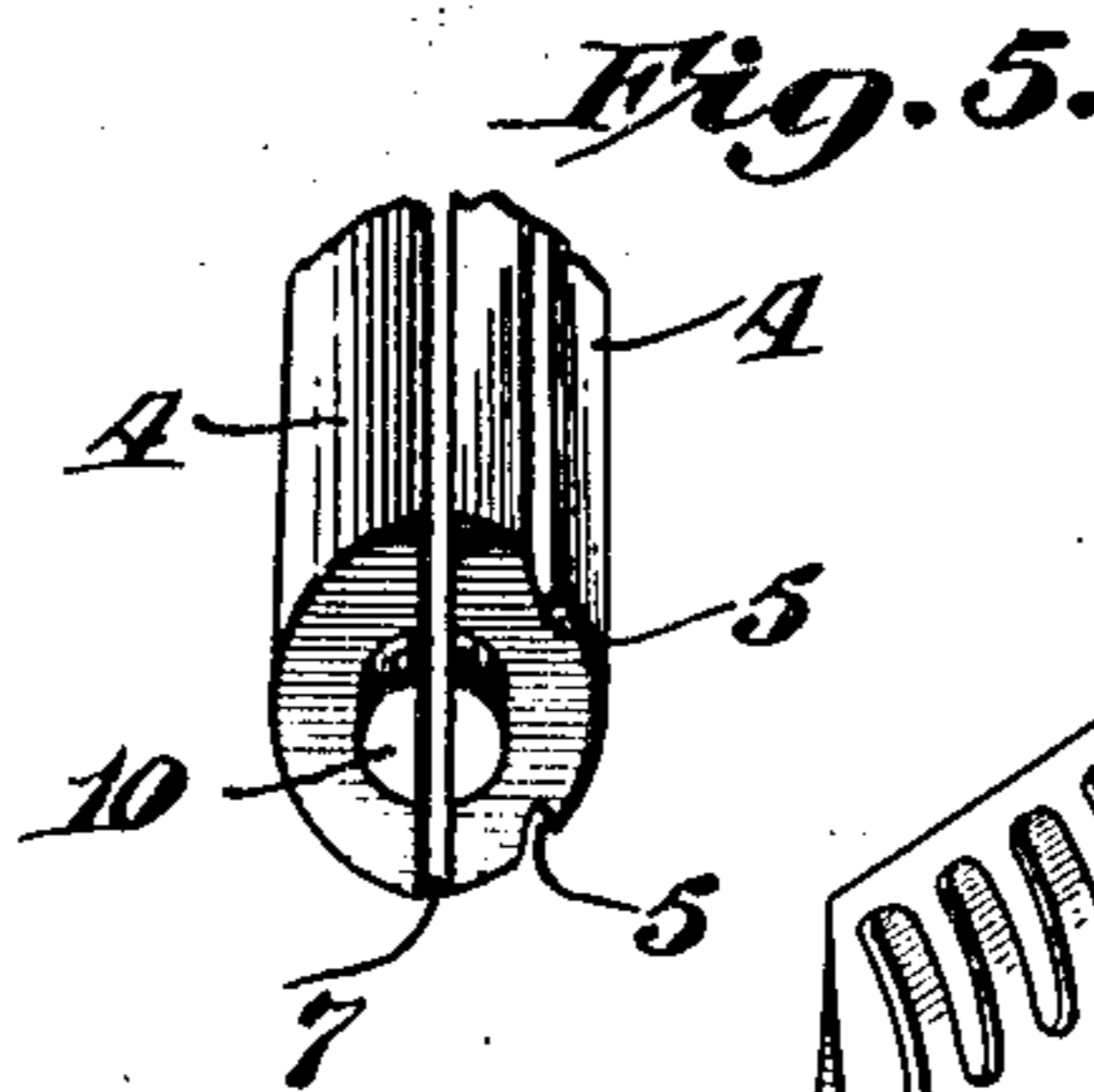
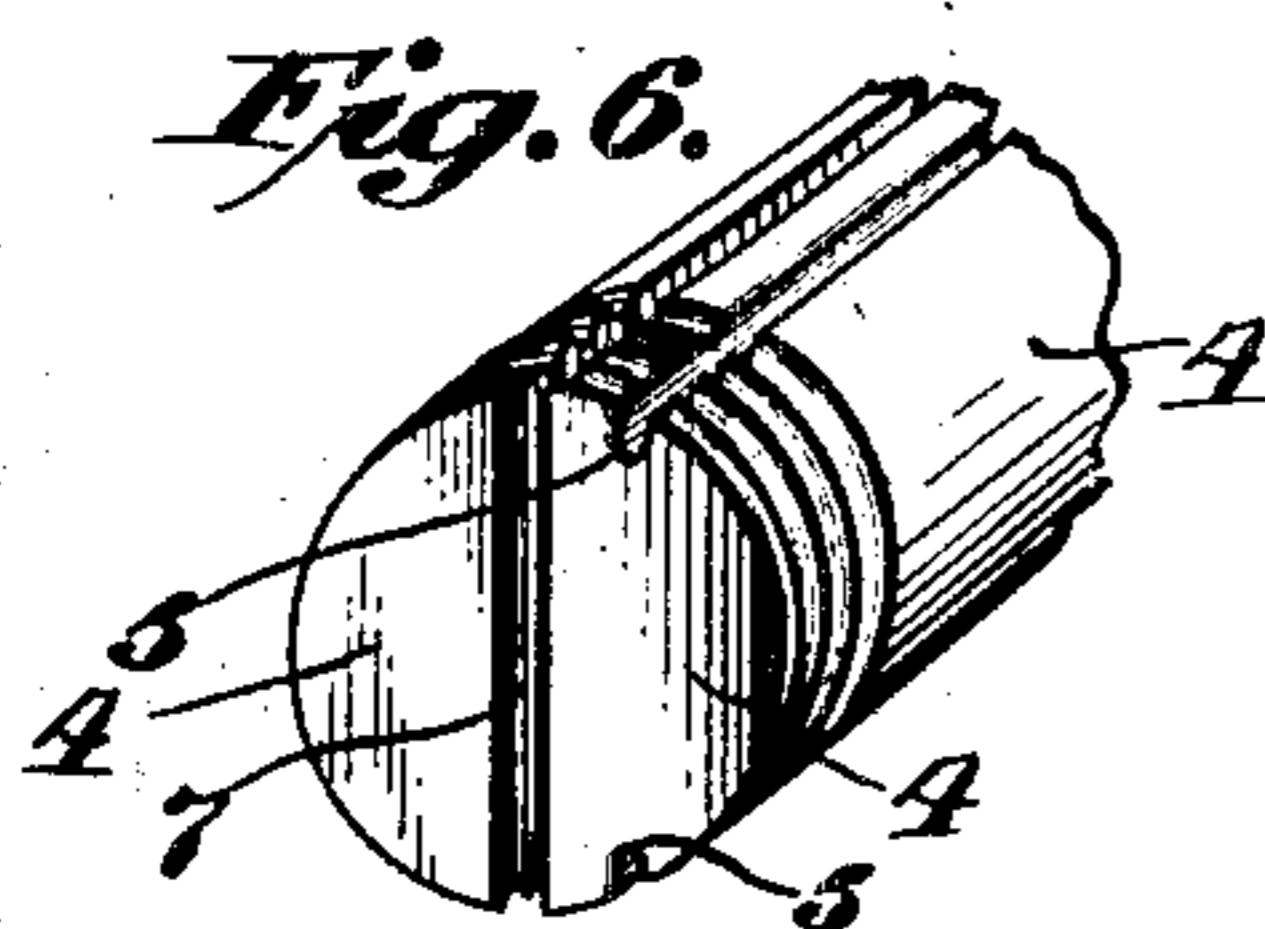
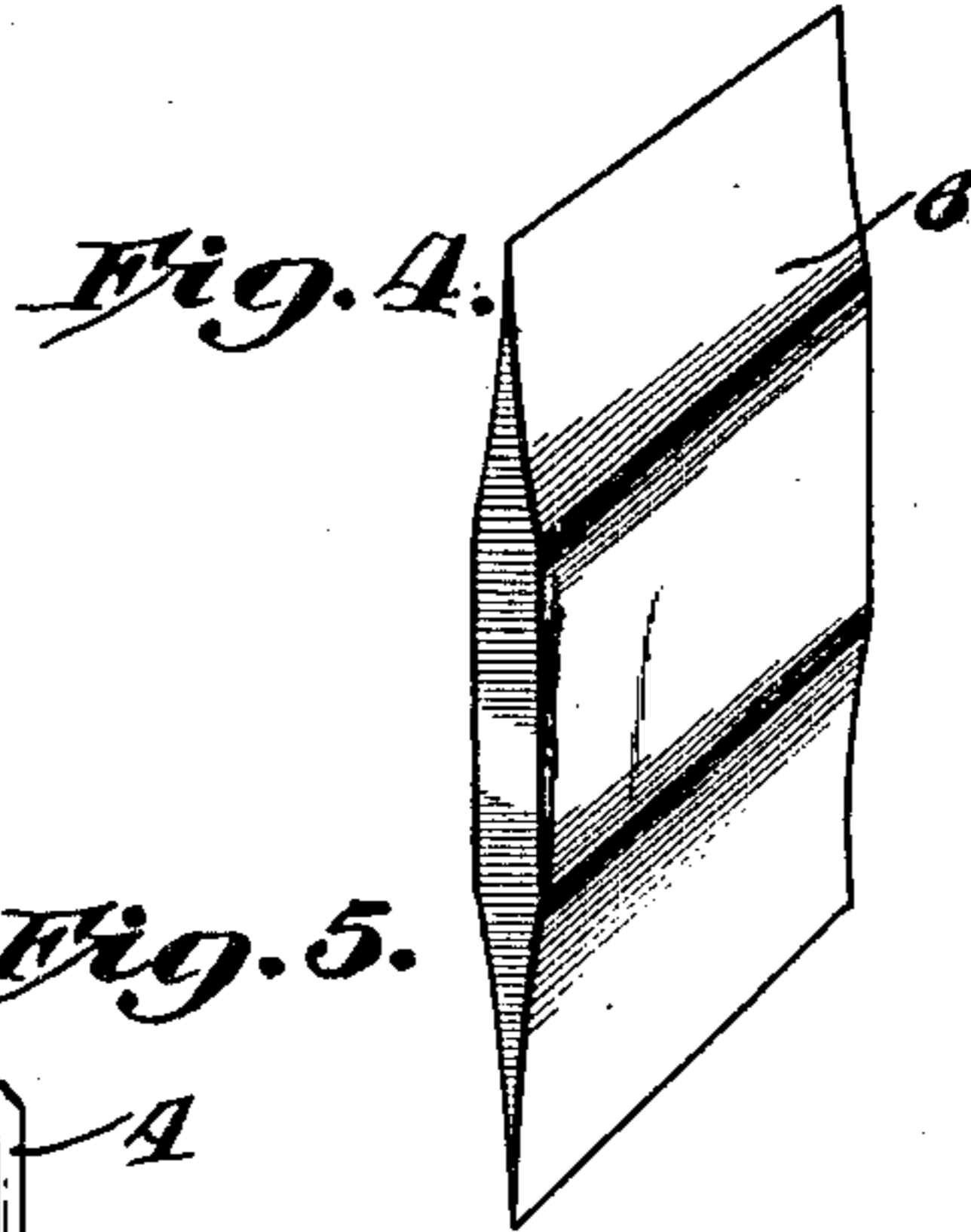
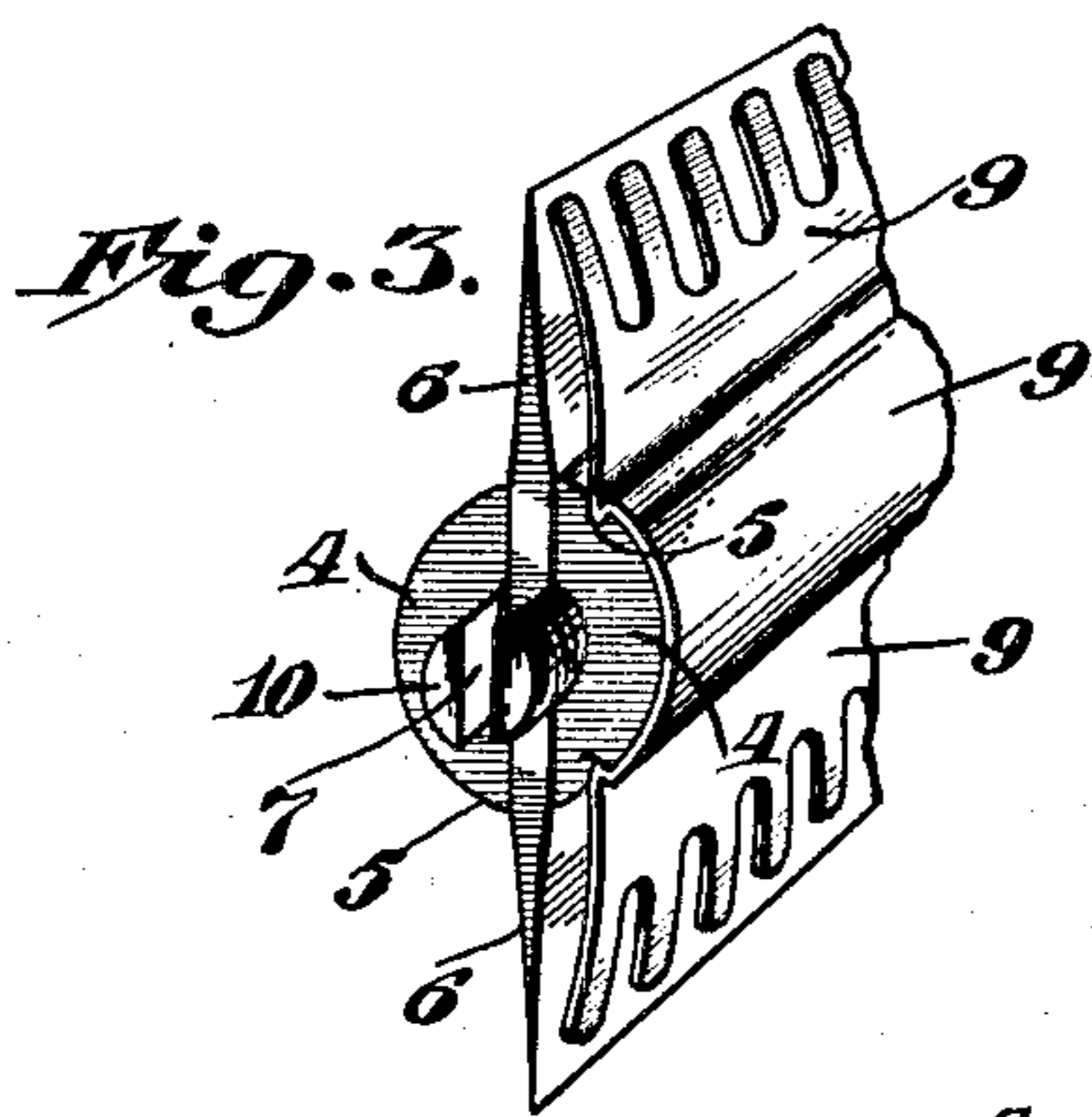
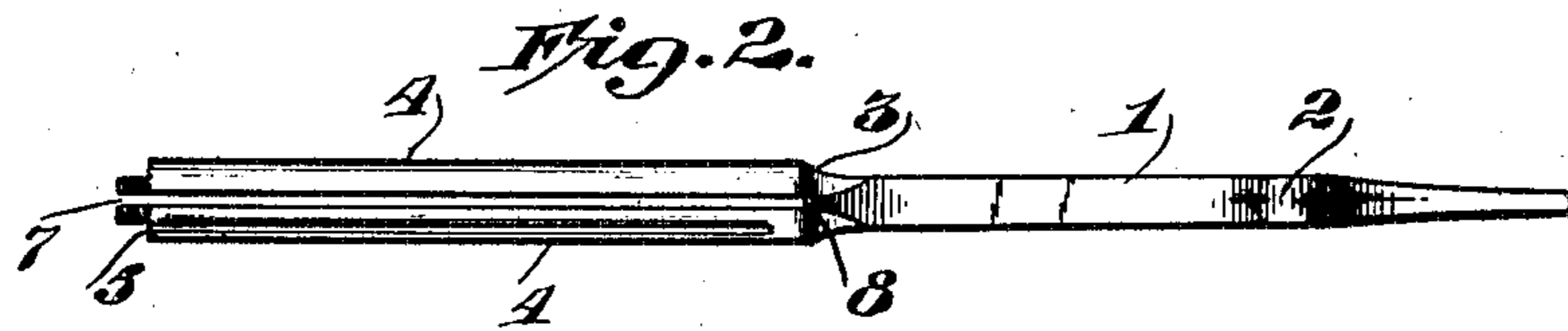
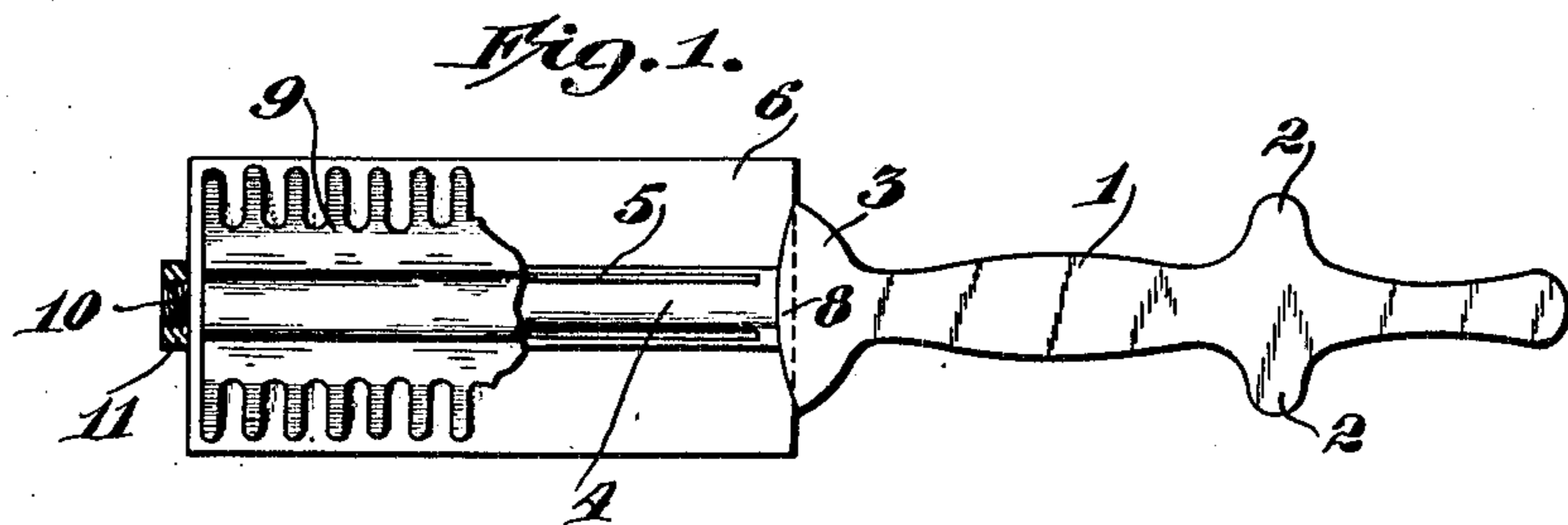
No. 870,826.

PATENTED NOV. 12, 1907.

H. L. HENRY & W. ALTHOFF.

SAFETY RAZOR.

APPLICATION FILED FEB. 23, 1906.



Attest:
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UNITED STATES PATENT OFFICE.

HORACE LYNFORD HENRY AND WALTER ALTHOFF, OF GENEVA, NEW YORK.

SAFETY-RAZOR.

No. 870,826.

Specification of Letters Patent.

Patented Nov. 12, 1907.

Application filed February 23, 1906. Serial No. 302,373.

To all whom it may concern:

Be it known that we, HORACE LYNFORD HENRY and WALTER ALTHOFF, citizens of the United States, and residents of and whose post-office addresses are Geneva, in the county of Ontario and State of New York, have invented certain new and useful Improvements in Safety-Razors, of which the following is a specification.

Our invention relates to razors, and especially to safety razors.

The objects of our invention are to provide a simple, instrument of convenient form, easily adjustable, inexpensive to manufacture, and easy to manipulate without danger of causing injury. We attain these objects by the devices described and illustrated in the accompanying specification and drawings, in which drawings like numerals of reference refer to like parts throughout the respective views.

Figure 1 is a side elevation of the complete structure, showing the guard in part broken away. Fig. 2 is a plan view of the frame alone. Fig. 3 is an enlarged perspective view of a part of the device showing the blade and guard and omitting the cap. Fig. 4 is an enlarged perspective view of the double blade. Fig. 5 is an enlarged perspective view of the end of the frame. Figs. 6 and 7 are enlarged perspective views of certain modifications.

In the figures, 1— is the handle of the frame; 2— lugs on the frame to provide a grip for the fingers; 3— a shoulder mortised at —8— to receive the end of the blade; 4— the blade holding body, preferably integral with the frame, having a slit —7— along its whole length; 5— grooves or recesses along the body, preferably on one side only of the slit; 6— the double-edged blade adapted to be inserted in the slit and to be firmly held in the mortise —8—; 9— a guard having serrated edges and adapted to be held by tongues in the grooves —5—; 10— a projecting lug on the body —4— provided with screw threads; 11— a cap or nut adapted to screw over the lug —10— or over the end of the body as in Fig. 6, so as to firmly lock the blade in the body —4— and in the mortise —8— of the shoulder —3— on the handle —1—.

The blade is inserted in the slot —7— and pressed firmly into the mortise —8—. The guard —9— is then placed in position, held in the grooves —5—, so that the serrations come into proper position relative to the edges of the blade, as is well known; the cap —11—, preferably knurled to facilitate adjustment, is then screwed on.

Referring to Fig. 7, we may cut my grooves or recesses —5— close to or rather as part of the slot —7—, which is in effect to cut away the edges of the body —4— so that the guard —9— comes in contact with the blade —6— and is held between the blade —6— and body —4—.

It will be evident that the handle —1—2—3— gives a convenient and natural grip for the act of shaving; the double blade is reversible and either edge may be used interchangeably. The guard is easily removed for cleaning or adjustment and the instrument may be readily and conveniently sharpened with or without removing the blade.

Where I have used the expression "slitted diametrically", I mean by this that the holder is provided with a slit running entirely through its diameter.

We do not limit ourselves to any particular material, design or shape of the whole or any part.

Where we have used any words in the plural—as "grooves", "recesses", etc., we do not mean to limit ourselves to the use of more than one as we may accomplish the result by the use of one such feature, though we preferably employ the plurality; but

What we claim is:

1. In a razor, the combination of a frame having a handle provided with a gripping lug, a mortised shoulder, a slitted body, a threaded shoulder at the end, and a longitudinal groove; with a double serrated guard engaging said groove; a double-edged blade secured in said slitted body and mortise; and a cap engaging the threaded shoulder to lock the blade and guard in position.

2. In a razor, the combination of a frame having a handle, and a longitudinally and diametrically slitted body provided with a longitudinal recess; with a double-edged blade secured in and extending through the slitted body; a double serrated guard engaging the recess and a cap engaging the end of the body to secure the blade and guard thereto.

3. The combination of a blade holder slitted diametrically throughout its length, a longitudinal recess in said holder; a double blade secured in said slit; a double guard secured by the recess, and means for securing both to the holder.

4. As a new article of manufacture, a razor comprising a holder, provided with a diametrical longitudinal slit, and a longitudinal recess; a blade inserted in said slit; a guard engaging said recess, and means for securing both to said holder.

5. As a new article of manufacture, a razor frame comprising a handle and a cylindrical blade holder provided with an axial slot through its diameter and having formed therein a peripheral recess parallel to the axis of said blade holder to engage a blade guard; and means for compressing the sides of the blade holder.

6. As a new article of manufacture, a razor frame comprising a handle portion and a blade holding portion, said blade holding portion having an axial slit through its diameter and also a longitudinal peripheral recess therein adapted to engage a blade guard substantially parallel to the slit.

7. As a new article of manufacture, a razor frame comprising a handle portion and a blade holding portion, said blade holding portion being slitted diametrically for substantially its whole length and having formed therein a plurality of longitudinal oppositely disposed recesses adapted to engage a blade guard substantially parallel to the slit.

8. A razor frame comprising a handle and a holder slitted diametrically substantially for its whole length to

hold a razor blade between its two sides, and having a plurality of longitudinal oppositely disposed recesses parallel to the slit, to hold a blade guard, and means for holding the sides of the blade holder together.

5 9. A razor comprising a handle; a blade holder in prolongation of the same, slitted diametrically and longitudinally for substantially its whole length and provided with a longitudinal recess substantially parallel to the slit; a blade inserted in the slit, and a blade guard engaging said recess.

10 10. As a new article of manufacture, a razor frame having a handle portion and a blade holder portion formed integral therewith; said blade holder portion being provided with an axial slit through its diameter and a longitudinal peripheral recess therein parallel to the slit; and means for holding a razor blade in the slit.

15 11. A razor frame comprising a handle; a blade holder

integral therewith and forming a prolongation thereof, and slitted longitudinally through its diameter and provided with means for holding a blade in the slit, and means for holding a blade guard in contact with the blade. 20

Signed at New York in the county of New York State of New York this 19th day of February 1906.

HORACE LYNFORD HENRY.

Witnesses:

HENRY S. REYNOLDS,
A. M. SEIDLER.

Signed at Geneva in the county of Ontario State of New York this 20th day of Feby. 1906.

WALTER ALTHOFF.

Witnesses:

E. J. COOK,
F. D. WHITWELL.