C. M. CRANE.

RAZOR BLADE HOLDER.

APPLICATION FILED FEB. 6, 1910.

965,690.

Patented July 26, 1910

2 SHEETS—SHEET 1.

Fig. 1.

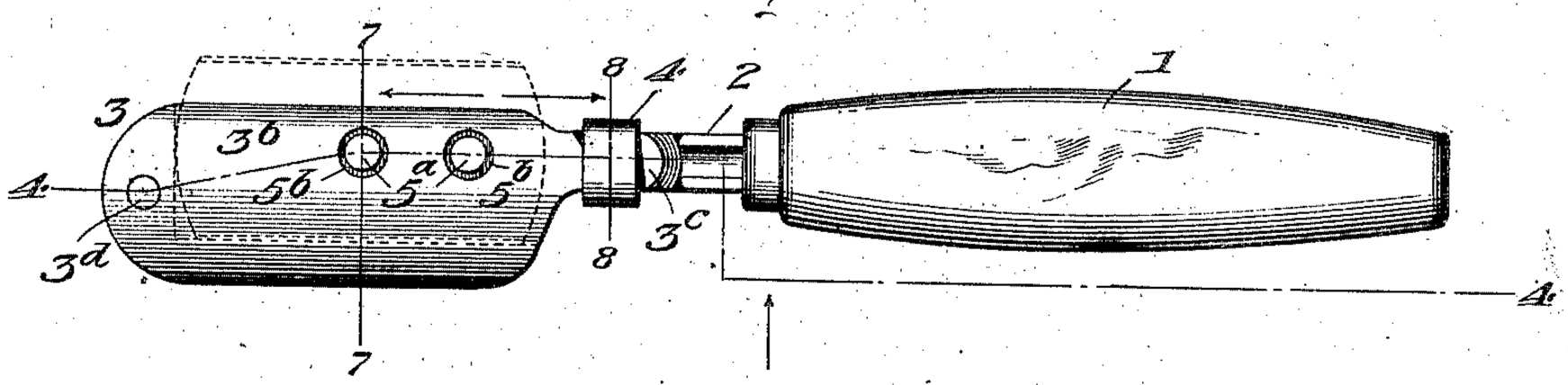


Fig. 2.

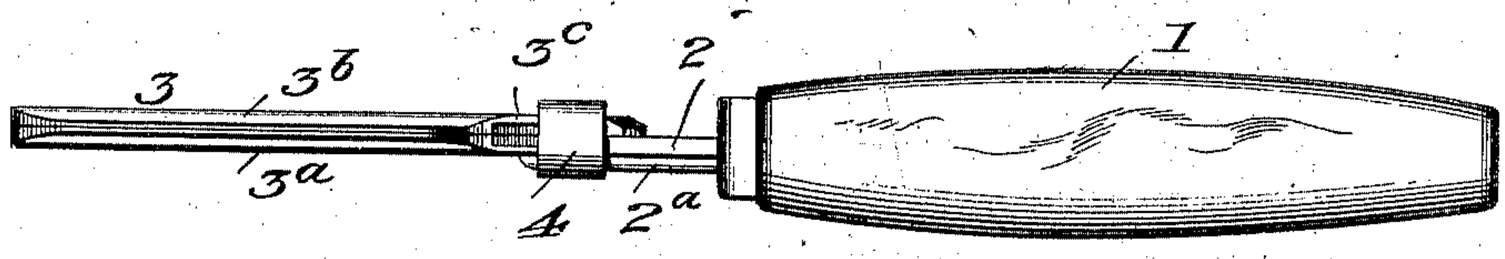


Fig. 3.

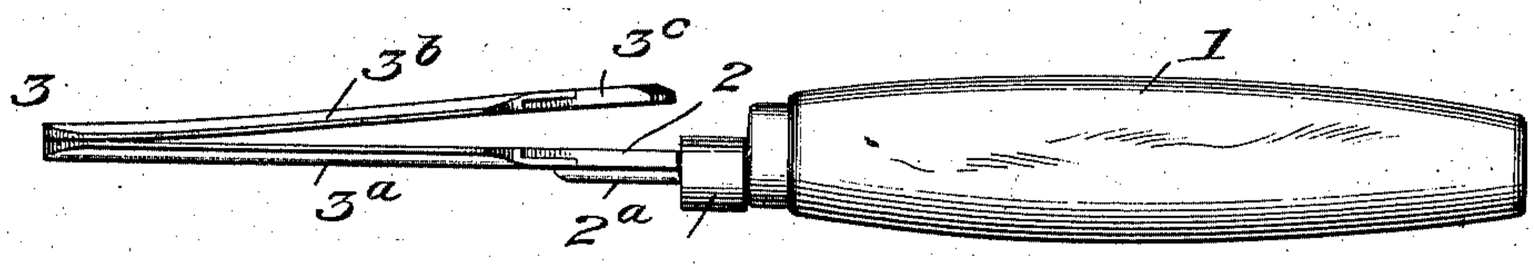
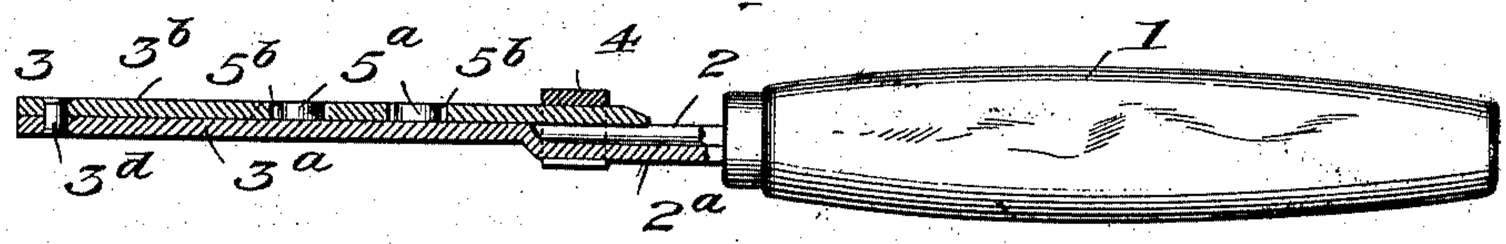


Fig. 4.



Witnesses

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APPLICATION FILED FEB. 8, 1910.

965,690.

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2 SHEETS—SHEET 2.

Fig. 5.

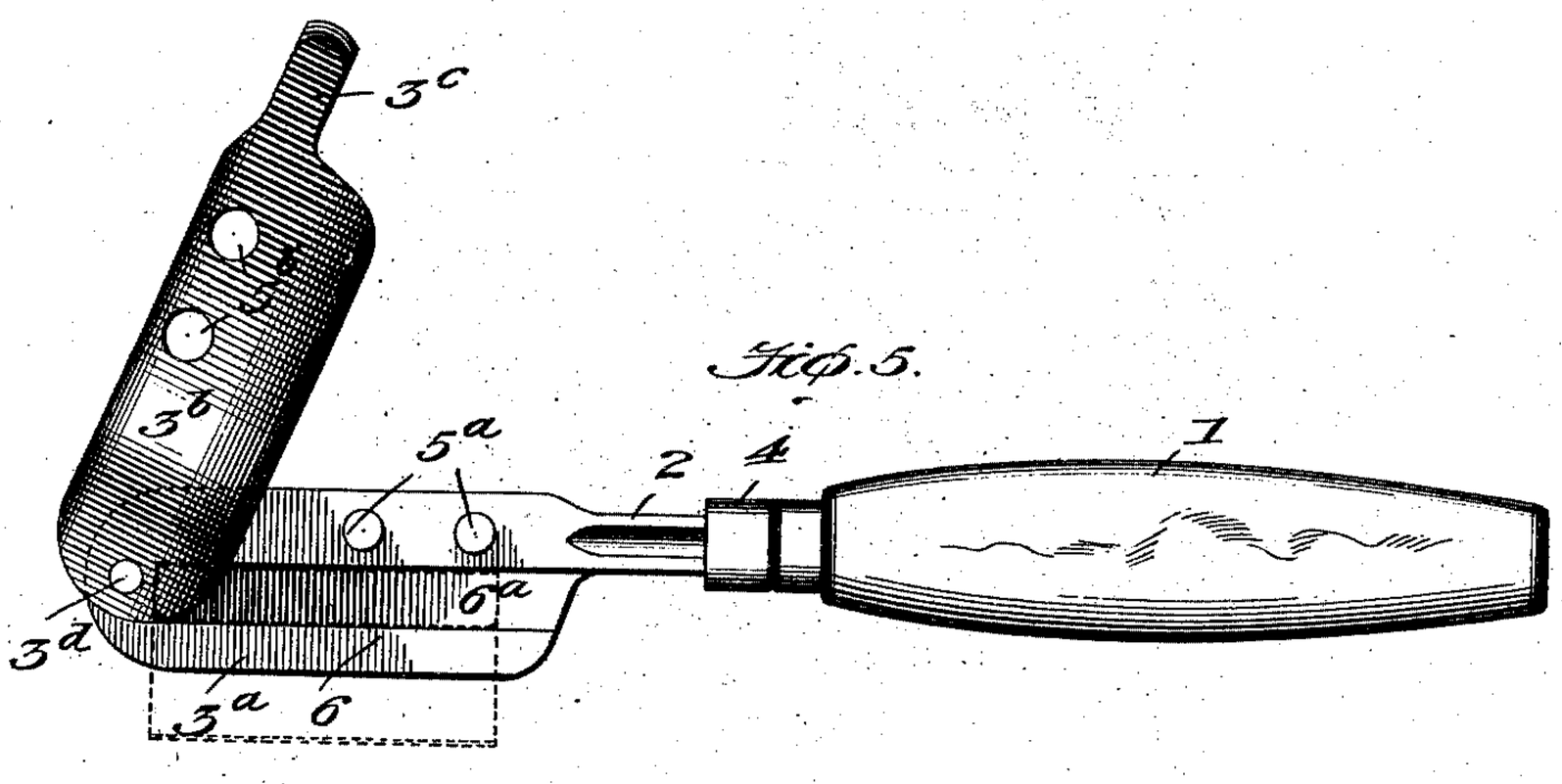


Fig. 6.

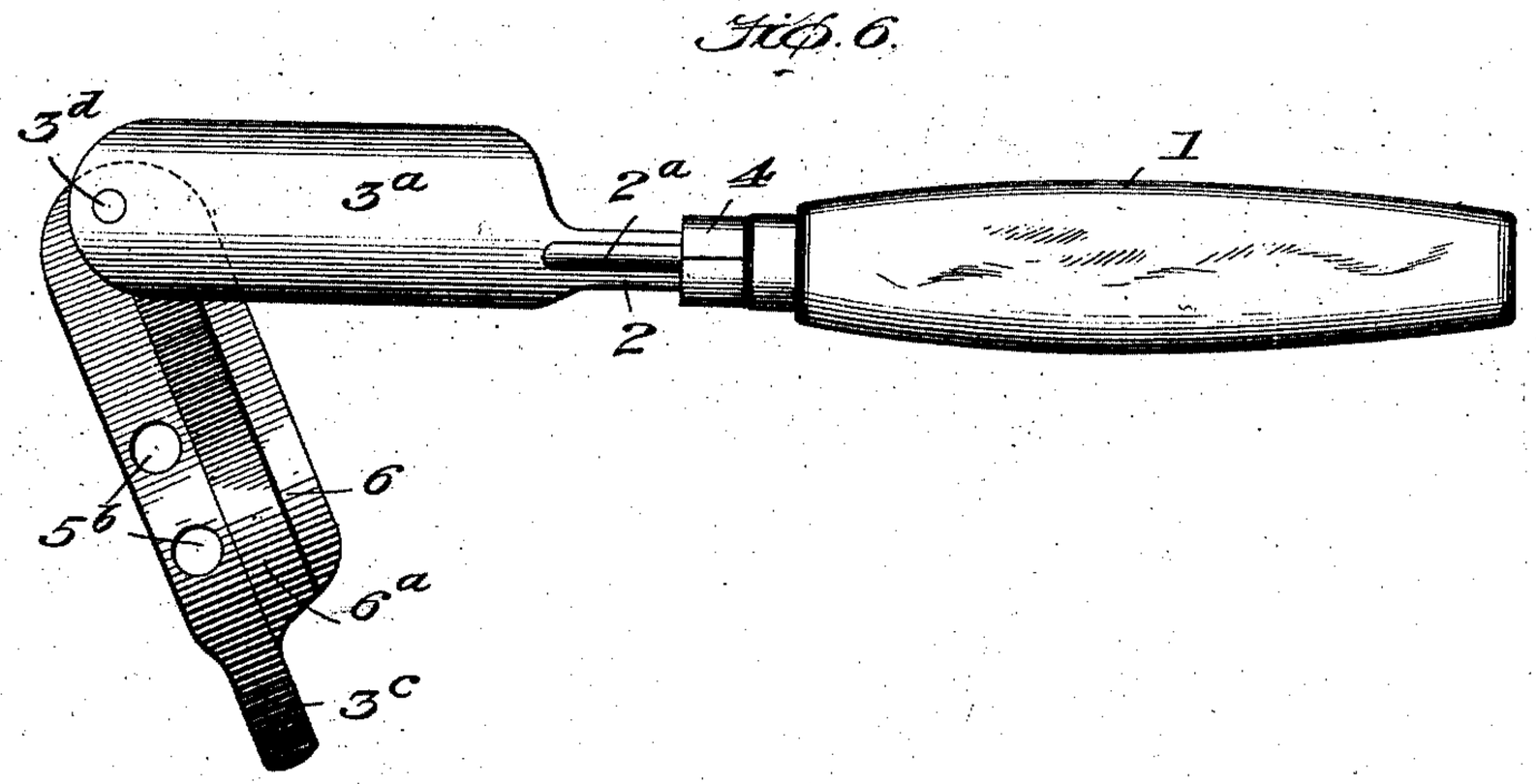
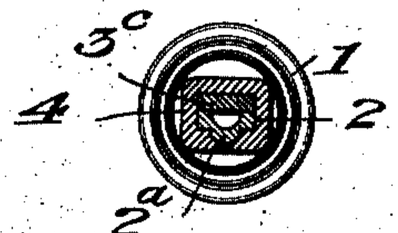


Fig. 7.

Fig. 8.



Witnesses

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UNITED STATES PATENT OFFICE.

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RAZOR-BLADE HOLDER.

965,690. Specification of Letters Patent. Patented July 26, 1910.

Application filed February 8, 1910. Serial No. 542,731.

To all whom it may concern:

Be it known that I, CHARLES M. CRANE, a citizen of the United States, residing at Canton, in the county of Stark and State of Ohio, have invented certain new and useful Improvements in and Relating to Razor-Blade Holders, of which the following is a specification.

This invention relates to a razor blade holder adapted to rigidly support or hold a razor blade with its sharp or shaving edge exposed.

For the purpose of illustration, I have, in the accompanying drawings, shown and described one form of razor blade holder embodying my invention.

Figure 1 is a plan view of a holder, embodying my invention, a razor blade, shown in dotted lines, being supported thereby. Fig. 2 is a side elevation of the holder. Fig. 3 is a perspective view of the clamping members in position ready to clamp a razor blade. Fig. 4 is a longitudinal section through the holder on the line 4—4, of Fig. 1. Figs. 5 and 6 are plan views of the opposite sides of the holder. Figs. 7 and 8 are transverse sectional views on the lines 7—7 and 8—8, respectively, of Fig. 1.

In the drawings, 1 indicates a handle which is preferably formed from wood.

2 indicates a shank mounted in the handle. The shank 2 is preferably crimped longitudinally or provided with a rib on one side, as shown at 2^a to strengthen it.

3 indicates clamping devices for detachably securing between them a razor blade with its shaving edge exposed. The clamping devices 3 preferably comprise a base clamp 3^a and a resilient clamp plate 3^b pivotally mounted thereon. The shank 2 and base 3^a are preferably formed integrally, the latter being somewhat enlarged relative to the shank to engage a relatively large portion of the razor blade.

3^d indicates a pivot pin, having its axis arranged at substantially right angles to the base clamp 3^a, for pivotally uniting the plate 3^b to the free end thereof. The pivot pin 3^d is fixed to one of the clamping devices 3 and extends through the other device to form the pivot. The free end of the pin is enlarged and is preferably countersunk in the clamp device in order that its outer surface may be flush. The end of the plate 3^b opposite to its pivoted end is reduced to approximately the size of the shank 2 to form an arm 3^c. The opposite outer faces of the clamp devices 3 are preferably convexed transversely, as shown in Fig. 7, to permit the proper beveling of the blade, when the latter is stropped.

4 indicates a lock member, preferably comprising a ring, surrounding the shank and movable longitudinally thereon to engage the arm 3^c of the plate 3^b. The upper surface of the arm 3^c is preferably inclined downwardly toward its free end, whereby it may operate as a wedge to press the clamping device against a razor blade when the lock member 4 is moved into engagement with the arm 3^c.

5 indicate means engaging a razor blade for interlocking it in the clamp. These means 5 preferably comprise projections 5^a carried by one of the clamp devices,—for instance,—the base clamp 3^a, and apertures 5^b formed in the other clamp device, the resilient plate 3^b, to receive the projections 5^a. These blade-interlocking devices 5 are adapted to grip blades of the type which are formed with spaced openings that assist in securing them in a safety razor. The devices 5 are properly spaced to register with such openings in the blade to permit the opposite faces or sides of the blade to be clamped by the opposite inner faces of the clamping devices 3.

6 indicate separate means for interlocking a razor blade which is provided with a folded-over edge, a strengthening plate, or otherwise enlarged along that edge opposite to its shaving edge. These means preferably comprise a pair of alined grooves 6^a, 6^a, formed in the clamping surfaces of the clamping devices 3. These grooves 6^a extend substantially from end to end of the clamp devices 3 and receive the enlarged or strengthened longitudinal edge of the blade.

As the clamp plate 3^b is formed from resilient metal, it will be understood that it is normally inclined or elevated above the interlocking means, when released by the lock member 4, as shown in Fig. 3. When in its elevated position, the plate 3^b is free to swing on its pivot into the position shown in Fig. 2.

In the operation of clamping a razor blade between the clamping devices 3, the lock member 4 is moved toward the handle 1 to release the plate 3^b. The latter is then swung on its pivot into open position. A razor blade may now be positioned on the

base clamp 3^a and in engagement with the interlocking means 5 or 6 which coöperate with the construction of blade to be clamped. The plate 3^b is then returned to its former position and pressed down against the blade, after which the lock member 4 is moved into engagement with the arm 3^c, thus firmly clamping the base clamp 3^a and plate 3^b in engagement with or against the holder.

It will be understood that my invention is primarily intended to detachably hold a thin or leaf-like razor blade with its shaving edge exposed whereby the latter may be stropped or sharpened, but it also may be used as a holder for the blade when shaving therewith.

To those skilled in the art of making devices of the class described, many alterations in construction and widely differing embodiments and applications of my invention will suggest themselves, without departing from the spirit and scope thereof. My disclosures and the description herein are purely illustrative, and are not intended to be in any sense limiting.

It will be noted that the blade clamping devices of the holder are so shaped and arranged that when any of the different blades which they are adapted to accommodate and hold is in stropping position, but one shaving edge is exposed. I am aware of the fact that numerous holders for razor blades have been devised, more particularly for double shaving edge razor blades, which holders allow both shaving edges to be exposed. This is of disadvantage in stropping, since, during the turning movements of the holder, the edge which is not being stropped is likely to engage and cut the strop.

What I claim is—

A holder for razor blades, comprising a pair of separable clamping elements connected together at their front ends, and each longitudinally recessed on its inner face, one of said clamping elements carrying a plurality of inwardly turned pins arranged outside of the recess in it, and the other of said clamping members having a plurality of apertures each arranged to register with one of said pins on the other clamping member, respectively, one of said clamping elements having a rear extension for connection with a suitable handle, and the other of said clamping elements having a corresponding rearward extension, and means for binding said extensions together.

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

CHARLES M. CRANE.

Witnesses:
LILLIAN KNIGHT,
IRVING C. JOHNSON.