

A. W. BEAMAN.  
 HOLDER FOR DETACHED CUTTING BLADES.  
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943,645.

Patented Dec. 21, 1909.

Fig. 1.

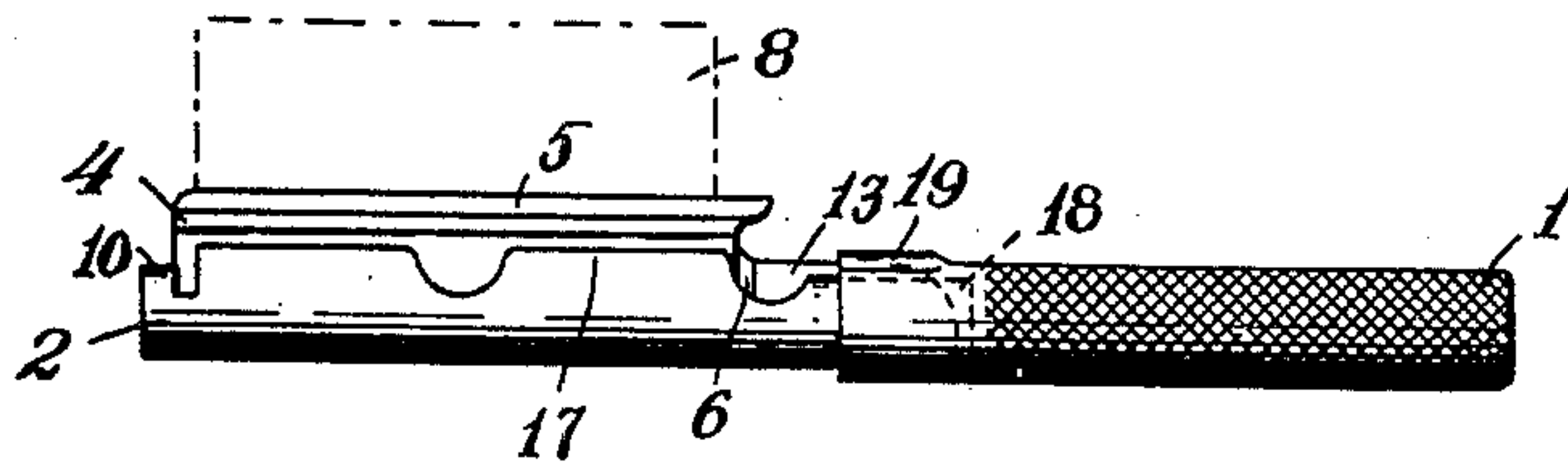


Fig. 2.

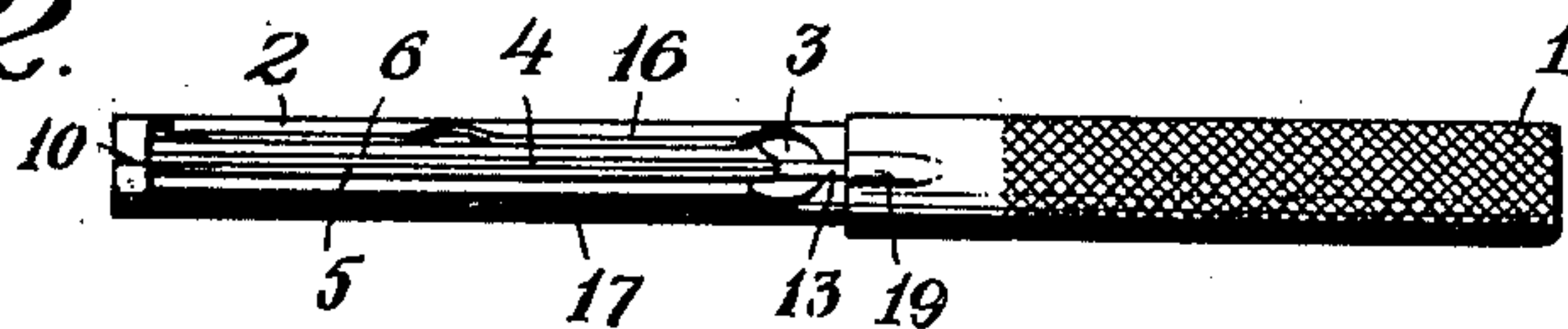


Fig. 3.

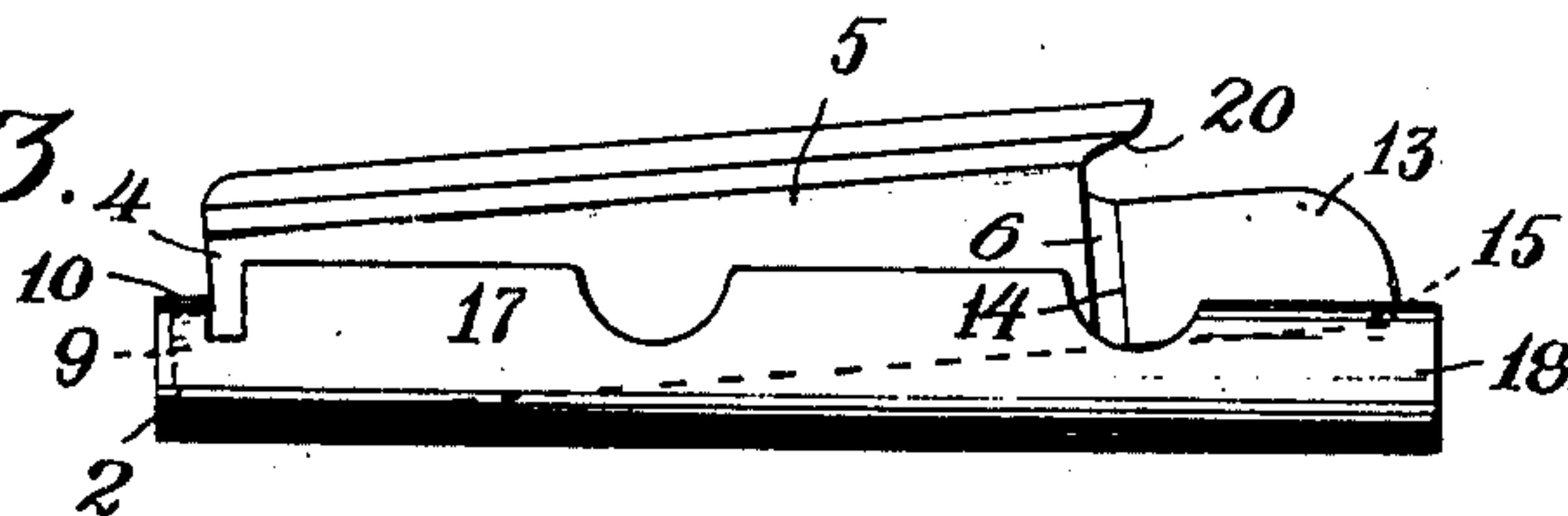


Fig. 4.

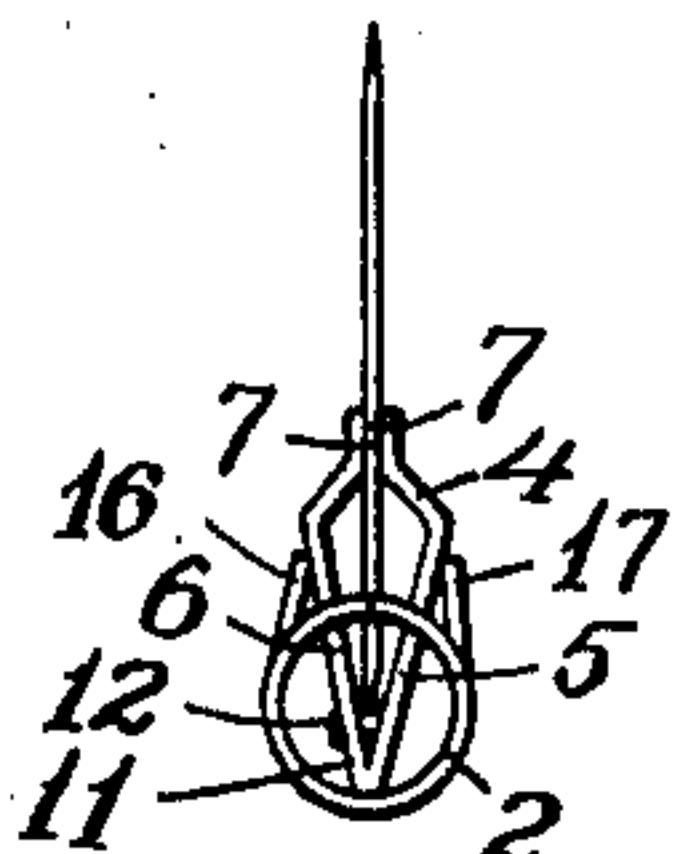


Fig. 5.

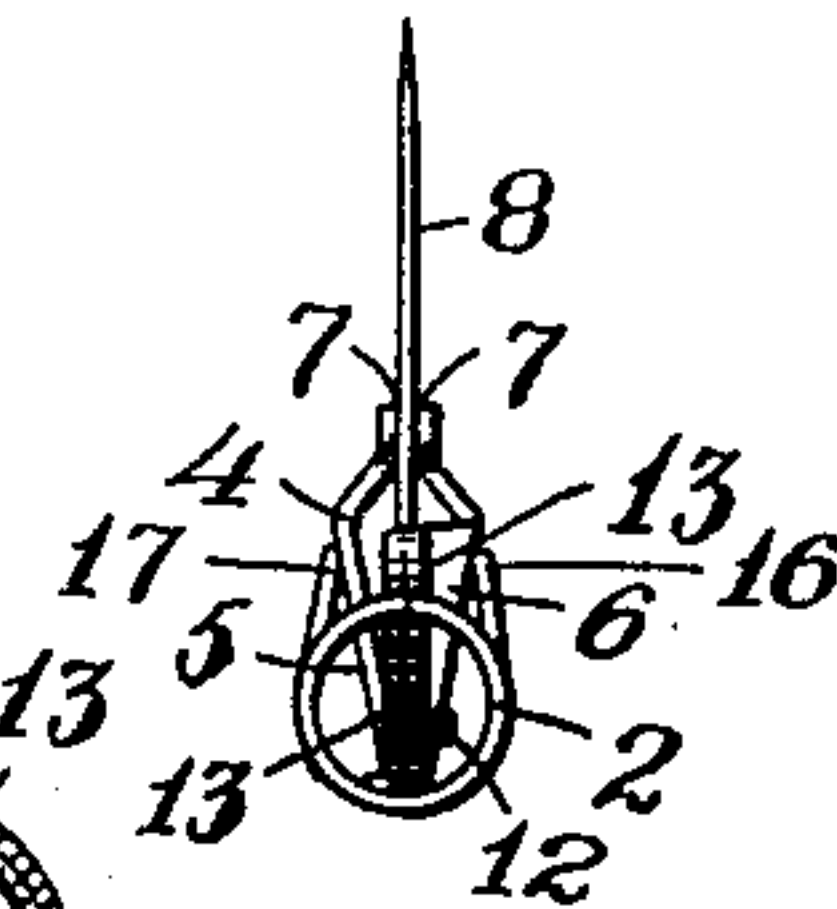
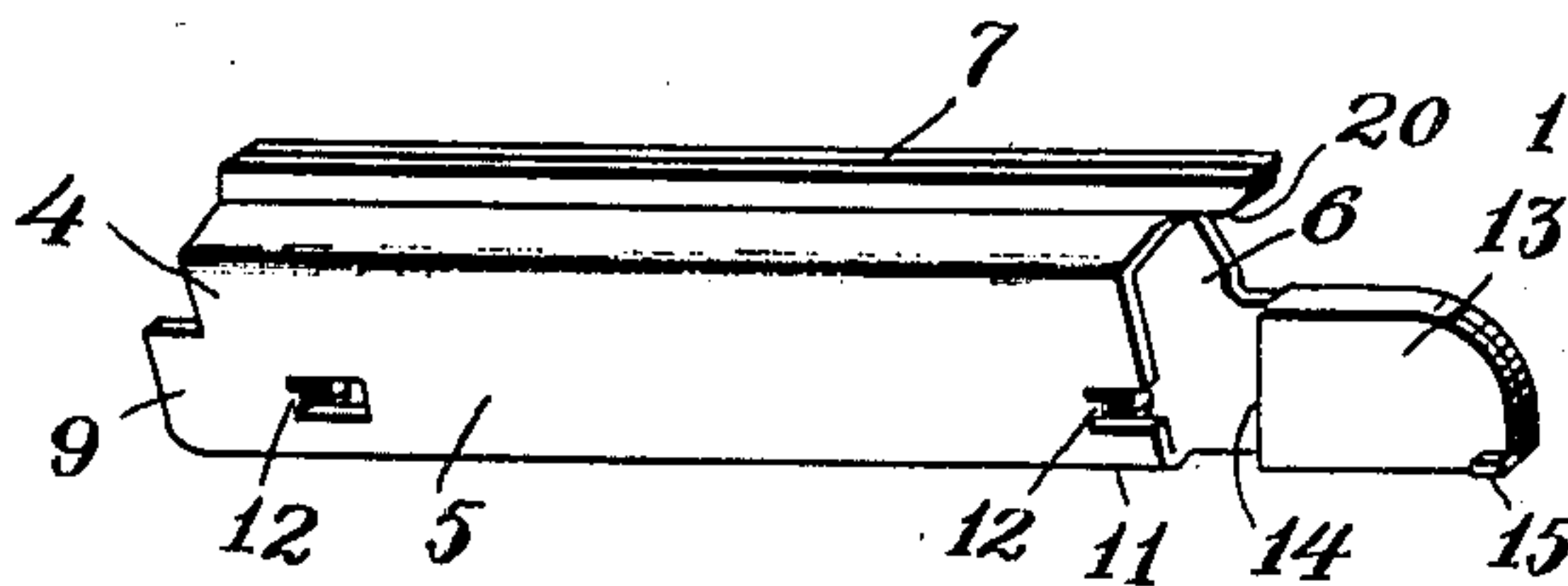


Fig. 6.



Witnesses

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# UNITED STATES PATENT OFFICE.

ARTHUR W. BEAMAN, OF WORCESTER, MASSACHUSETTS.

HOLDER FOR DETACHED CUTTING-BLADES.

943,645.

Specification of Letters Patent.

Patented Dec. 21, 1909.

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*To all whom it may concern:*

Be it known that I, ARTHUR W. BEAMAN, a citizen of the United States, residing at Worcester, in the county of Worcester and Commonwealth of Massachusetts, have invented certain new and useful Improvements in a Holder for Detached Cutting-Blades, of which the following is a specification, accompanied by drawings forming a part of the same, in which—

Figure 1 is a side view of my improved holder with a blade inserted. Fig. 2 is a top view of the same without a blade. Fig. 3 is a side view on an enlarged scale of the blade holding portion, with the gripping jaws raised to receive a blade. Fig. 4 is a front end view of the blade holding portion with a blade inserted. Fig. 5 is a rear end view of the same, and Fig. 6 is a perspective view of the gripping jaws detached.

Similar reference figures refer to similar parts in the different views.

My invention relates to holders for detached cutting blades, in order to furnish an opportunity for their manipulation in sharpening or for other purposes, and it consists in the construction and arrangement of parts as hereinafter described and pointed out in the annexed claims.

I have shown the holder arranged to receive a blade from a safety razor and to hold it securely during the process of stropping, but I do not confine myself to this particular form, and the principle of my invention is applicable with slight changes for securing many other forms of cutting blades which are separable from their operative handles.

In the present embodiment of my invention I have shown the holder divided into two parts, a handle portion 1 and a blade holding portion comprising a comparatively rigid cylindrical member 2 of sheet metal, with a longitudinal opening 3 in its top, into which is inserted an elastic elongated V-shaped member 4 also of sheet metal, with the base of the V uppermost and wider than the opening 3. At the base of the V the sides 5 and 6 of the V-shaped member 4 are bent inward and terminate in longitudinal gripping surfaces 7, which are arranged to receive the blade 8. The V-shaped member is provided with an extension 9, arranged to engage the cylindrical member 2 at 10 beyond the opening 3, thereby forming a rocking surface upon which the V-shaped mem-

ber 4 may be rocked to raise it from the opening 3, as shown in Fig. 3, and thereby allow the gripping surfaces 7 to separate for the insertion of a razor blade. The elastic V-shaped member 4 is constructed with a sufficiently obtuse angle to allow its easy escape from the opening 3.

Near the apex 11 of the V-shaped member its sides 5 and 6 are connected by spurs 12, which serve to limit the downward movement of the blade as it is inserted. In the present instance, these spurs are located near each end of the V-shaped member, in order to contact with the razor blade near its end and beyond its cutting edge.

The portion 10 of the cylindrical member 2 serves as a stop to prevent forward movement of the blade, and the side 6 of the V-shaped member is offset to form an extension 13, approximately in the vertical plane of the gripping jaws 7, thereby providing a stop 14 to limit backward movement of the razor blade. The extension 13 is provided at its lower corner with a spur 15, arranged to contact with the cylindrical member 2 and limit the upward rocking movement of the V-shaped portion 4. After the razor blade is inserted between the gripping jaws 7 and its position determined by contact with the spurs 12, the blade 8 and stop 14, the V-shaped member is depressed by pressure upon the extension 13, thereby rocking the V-shaped member 4 upon its extension 9 and bringing it within the cylindrical portion 2. The sides 5 and 6 of the V-shaped member are compressed by contact with the edges 16 and 17 of the opening 3 in the cylindrical member 2, the edges 16 and 17 being of sufficient rigidity to bring the gripping jaws into firm contact with the razor blade between them.

When the V-shaped section has been depressed to the position shown in Fig. 1, the handle portion 1 is slipped over the end of the cylindrical portion far enough to include a portion of the extension 13, thereby preventing accidental escape of the V-shaped portion from the cylindrical member, due to the elasticity of the sides 5 and 6 and the character of the angle at the apex 11.

The handle 1 is provided with a raised portion 19 arranged to contact with the upper surface of the extension 13, which extends slightly above the cylindrical member 2, thereby preventing rotation of the handle 1 upon the cylindrical member 2. The grip-



ping surfaces 7 are extended slightly beyond the sides 5 and 6 of the V-shaped portion to provide a lifting shoulder 20, which affords an opportunity of engaging the V-shaped portion to lift it out of the cylindrical member into the position shown in Fig. 3, when the handle 1 is removed.

By my invention, as above described, I provide gripping jaws between which a cutting blade may be inserted, and means for determining the position of the cutting blade held between said jaws. By the depression of the V-shaped member between the sides 5 and 6 of the opening 3 the gripping jaws are closed and the cutting blade held firmly between them, and I also provide positive means for holding the V-shaped member in its depressed position. The sides 5 and 6 are also arranged to diverge sufficiently to allow an easy exit for the V-shaped member from between the edges 16 and 17 of the opening 3, when the V-shaped member is released by the removal of the handle 1.

I claim,

1. A blade holder, having a V-shaped member with its sides at the base bent inward terminating in gripping surfaces, a member provided with an opening closed at each end of less width than the base of the V-shaped member, with said V-shaped member arranged to be inserted transversely into said opening.

2. A blade holder, having an elastic V-shaped member with its sides at the base bent inward terminating in gripping surfaces, rigid surfaces separated by a distance less than the width of the base of the V-shaped member, an extension at the forward end of said V-shaped member, and means connecting said rigid surfaces arranged to engage said extension.

3. A blade holder, having an elastic V-shaped member with its sides at the base bent inward terminating in gripping surfaces, a member having a longitudinal opening of less width than the base of said V-shaped member, with said V-shaped member arranged to be inserted transversely into said opening leaving the base of said V-shaped member projecting from said opening, and means at either end of said opening for holding said V-shaped member within said opening.

4. A blade holder, having a V-shaped member with elastic gripping jaws at the base of said V, a cylindrical member having an opening of less width than the base of said V, with said V-shaped member arranged to be inserted transversely into said opening, and a detachable handle arranged to engage a portion of said cylindrical member and cover one end of said opening.

5. A blade holder, having an elastic V-shaped member with its sides at the base bent inward terminating in gripping surfaces, a rigid member having a longitudinal opening of less width than the base of said V-shaped member, an extension on the forward end of said V-shaped member arranged to engage said rigid member beyond said opening, means for rocking said V-shaped member on said extension, and detachable means for holding the rear end of said V-shaped member in said opening.

6. In a blade holder of the class described, the combination with an elastic V-shaped member provided with gripping surfaces, of a cylindrical member provided with a longitudinal opening of less width than the base of said V and arranged to receive said V-shaped member, means for rocking said V-shaped member upon its forward end in said opening, and means for preventing the entire withdrawal of the rear end of said member from said opening.

7. A blade holder, having a V-shaped member provided with gripping surfaces at the base, means for opening and closing said V-shaped member, and spurs arranged between the sides of said V-shaped member near the apex to contact with the back of a blade inserted between said gripping surfaces.

8. In a blade holder of the class described, the combination with elastic gripping jaws, with said jaws bent inward to form gripping surfaces, rigid surfaces separated by less distance than said jaws, and means for rocking said gripping jaws into and out of engagement with rigid surfaces arranged to exert pressure upon said jaws and thereby bring said gripping surfaces together.

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Witnesses:

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