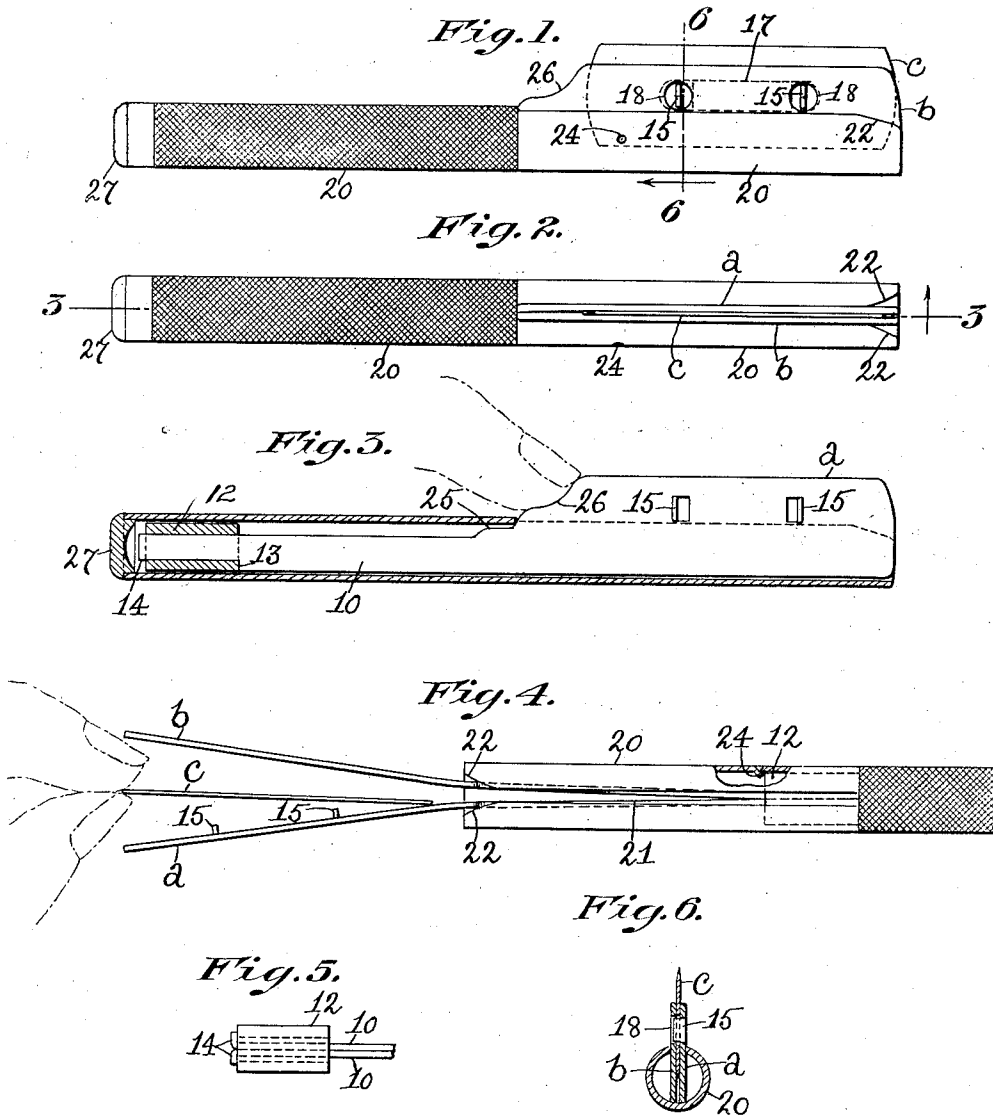


L. A. CARPENTER & R. MIDDLETON.
BLADE HOLDING DEVICE.

APPLICATION FILED MAY 16, 1912.

1,058,351.

Patented Apr. 8, 1913.



Witnesses:
M. S. Crozier
J. Murphy

Inventors:
Lewis A. Carpenter
Richard Middleton
by Jas. H. Schuchill
Att'y.

UNITED STATES PATENT OFFICE.

LEWIS A. CARPENTER AND RICHARD MIDDLETON, OF REVERE, MASSACHUSETTS.

BLADE-HOLDING DEVICE.

1,058,351.

Specification of Letters Patent.

Patented Apr. 8, 1913.

Application filed May 16, 1912. Serial No. 697,663.

To all whom it may concern:

Be it known that we, LEWIS A. CARPENTER and RICHARD MIDDLETON, citizens of the United States, residing in Revere, county of Suffolk, and State of Massachusetts, have invented an Improvement in Blade-Holding Devices, of which the following description, in connection with the accompanying drawings, is a specification, like letters on the drawings representing like parts.

This invention relates to a blade holding device, especially adapted for use as a holder for blades used with safety razors, whereby the blade can be stropped and if desired used in the same manner as the ordinary razor is stropped and used.

The present invention has for its object to provide a holding device for blades of the character described, which is inexpensive and efficient in operation and to which the blade can be applied and removed therefrom with little effort on the part of the operator and without danger of being cut in handling the blade.

Figure 1 is a plan view of a blade holding device embodying this invention. Fig. 2, a side elevation of the device shown in Fig. 1. Fig. 3, a section on the line 3—3, Fig. 2. Fig. 4, a side elevation showing the blade holder in its open condition ready to receive a blade. Fig. 5, a detail to be referred to, and Fig. 6, a section on the line 6—6, Fig. 1.

Referring to the drawings, *a, b*, represent two clamping members for the blade *c*, which latter may be of any suitable construction such as now used with any of the well-known types of safety razors.

The clamping members *a, b* are made of sheet metal, preferably steel and are made of sufficient width to firmly support the blade *c*, and have extended from them materially narrower arms 10, which are made substantially long and may be secured together at their rear ends as herein shown by a sleeve 12, which is retained in position on the arms by a shoulder 13 on the arms and by the outwardly bent ends 14 of the same.

The sleeve 12 ties the arms 10 together at the end opposite to the clamping members

and said arms are bent away from each other from the end inserted into the sleeve to impart to said arms a spring action by which the clamping members are moved away from each other bodily and are separated at their opposite sides and outer ends for a purpose as will be described.

The clamping members *a, b* are provided with means for engaging the blade so as to secure it in fixed relation to the said members, and in the present instance, one clamping member as *a* is provided with projections or lugs 15, which may be integral with the member as herein shown, and which are made of sufficient length to extend through one or more openings in the blade and into openings 18 in the member *b*.

In the present instance, the blade *c* is shown as provided with a single opening or slot 17 and the member *a* with two lugs 15, which are designed to pass through the slot 17 and enter two openings 18 in the member *b*, but it is not desired to limit the invention to the particular number of lugs or openings herein shown.

Provision is made for securing the clamping members in their closed or operative position, and for this purpose is employed a tube 20 having a slot 21 extended longitudinally for a portion of its length and of sufficient length to enable the clamping members *a, b* to be passed into the same. The slot 21 is made of a width substantially equal to the thickness of the clamping members *a, b* and the interposed blade *c*, so that when the clamping members with the blade between them is slipped into the slotted tube, the walls of the slot will exert a pressure on the clamping members and cause the latter to hold the blade firmly against movement, as represented in Figs. 2 and 6.

The walls of the slot 21 may and preferably will be provided with inclined portions 22 at their outer end, so as to form a V-shaped entrance to said slot, which assists in guiding the clamping members into the slot, and also allows the clamping members to spread sufficiently to enable the blade to be readily removed and placed in position as represented in Fig. 4.

It will be noticed that the clamping mem-

bers are disconnected from each other at their opposite sides and outer ends, which enables the blade to be inserted between them from either side or longitudinally without danger of dulling or spoiling either edge of the blade by contact with metal. Provision is also made for limiting the movement of the clamping members and their arms 10 out of the slotted tube, which is effected as herein shown by providing the tube 20 on its inner surface with a projection 24, which is designed to be engaged by the front end of the sleeve 12, and said stop is preferably located so as to be engaged by the sleeve when the clamping members are beyond the front end of the tube 20 and the portions 25 of the arms 10 immediately behind the clamping members are engaged with the sides of the V-shaped end of the slot, which serve to prevent the clamping members from rotating or turning out of alinement with the slot, whereby said members are maintained in position to be quickly pushed into the tube.

25 The clamping members *a*, *b*, may be provided at their rear ends with a curved portion 26, which is shaped to receive the thumb of the hand which grasps the tube, so as to enable the clamping members to be pushed forward out of the tube, when it is desired to turn the blade or place a new one between said members.

The tube 20 constitutes a hollow holder for the clamping members, and its unslotted portion may be milled or knurled to afford a firm grip for the hand. The tube may be closed at its rear end by a suitable cap 27.

In operation the blade *c* is placed upon the clamping member *a* after the manner represented in Fig. 4, with the lugs 15 extended through the slot or opening 17. The members *a*, *b*, are then grasped between the fingers and brought together with the lugs extended into the openings 18 in the member *b*. Both members are then pushed into the hollow holder until the clamping members are stopped by the end wall of the slot 21, as represented in Figs. 1, 2 and 3. When in this position, the holder can be manipulated like an ordinary or old-fashioned razor for stropping the blade, and when stropped, the razor can be used for shaving in the same manner as the ordinary razor or as is preferred, the blade can be removed and used with the holder of the safety razors, such as now found on the market.

Claims—

1. In a blade holding device of the character described, in combination, clamping members disconnected from each other at their opposite sides and at their outer ends to receive the blade between them, spring arms extended rearwardly from said members, a sleeve into which the free ends of said arms opposite to said clamping mem-

bers are extended, a tube in which said arms and sleeve are inserted, provided with a longitudinal slot for the reception of said clamping members, said slot having a substantially V-shaped enlargement at its front end, and a stop cooperating with the said sleeve to limit the outward movement of said clamping members, substantially as described.

2. In a blade holding device of the character described, in combination, clamping members disconnected from each other at their opposite sides and at their outer ends to receive the blade between them, spring arms extended rearwardly from said members, means to secure said arms together at their free ends and a hollow holder into which said arms are extended, said holder being provided with a longitudinally extended slot for the reception of the clamping members and into which said members are slidable and through which they project in the closed position of the clamping members, substantially as described.

3. In a blade holding device of the character described, in combination, clamping members disconnected from each other at their opposite sides and at their outer ends to receive the blade between them, one of said members having means for centering the blade thereon, and a hollow holder having a slot into which said clamping members are inserted and are slidable therein and through which said members project in their closed position, substantially as described.

4. In a blade holding device of the character described, in combination, clamping members disconnected from each other at their opposite sides and at their outer ends to receive the blade between them, and provided at their rear ends with a curved portion to fit the thumb of the operator and a hollow holder having a slot into which the clamping members are inserted, substantially as described.

5. In a blade holding device of the character described, in combination, clamping members disconnected from each other at their opposite sides and at their outer ends to receive the blade between them, spring arms extended from said clamping members, and a hollow handle in which said spring arms and clamping members are slidable and having a longitudinal slot in which said clamping members are slidable and through which they project in their closed position, substantially as described.

6. In a blade holding device of the character described, in combination, a hollow handle open at one end and provided with a slot extended from said open end in the direction of the length of the hollow handle, spring clamping members disconnected from each other at their opposite sides and at their outer end and brought into substan-

tially parallel relation within the hollow handle by the insertion therein of said clamping members, and a blade extended through said slot and having the opposite
5 surfaces of its portion within the hollow handle in contact with the clamping members to be firmly gripped thereby.

In testimony whereof, we have signed our

names to this specification in the presence of two subscribing witnesses.

LEWIS A. CARPENTER.
RICHARD MIDDLETON.

Witnesses:

JAS. H. CHURCHILL,
J. MURPHY.
