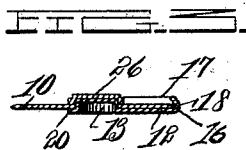
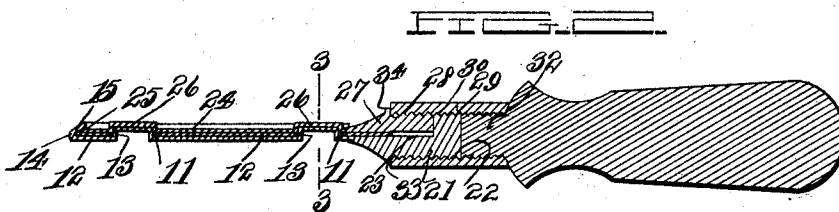
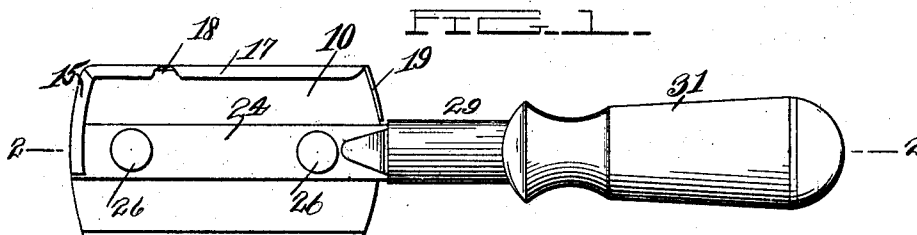


F. J. BOWERS.
 RAZOR BLADE HOLDER.
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997,110.

Patented July 4, 1911.



Inventor
 Florence J. Bowers.

Witnesses
 F. W. Taylor.
 Francis Boyle

By *Handwritten Signature*
 Attorney

UNITED STATES PATENT OFFICE.

FLORENCE J. BOWERS, OF SPOKANE, WASHINGTON.

RAZOR-BLADE HOLDER.

997,110.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, FLORENCE J. BOWERS, a citizen of the United States, residing at Spokane, in the county of Spokane, State of Washington, have invented certain new and useful Improvements in Razor-Blade Holders; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to safety razor blade holders for used blades and has for its object to provide a simple device of this character that will have a novel form of clamp for holding the blade, this clamp positively preventing independent movement of the blade while the latter is being used as a ripping knife in opening seams, etc. A further object is to provide a blade clamp that will permit of the blade being quickly reversed when dulled.

In the accompanying drawings forming part of this specification:—Figure 1 is a side elevation of a blade holder constructed in accordance with my invention. Fig. 2 is a longitudinal sectional view taken on the line 2—2, Fig. 1. Fig. 3 is a cross sectional view taken on the line 3—3, Fig. 2.

Referring now to the drawing, the character 10 designates a safety razor blade of the ordinary construction and being equipped with the usual circular openings 11 which permit of the blade being secured in a holder hereinafter described after becoming unfit for further service as a razor blade.

The blade holder comprising the subject matter of this invention consists of a plate 12 adapted to bear against one of the flat faces of the razor blade and having a plurality of lugs 13 stamped therein adapted to project through the circular openings of the razor blade. The plate is bent upwardly at one end edge as shown at 14 and then at right angles to this upwardly bent portion as shown at 15 to form an arcuate lip which fits over the corresponding end of the razor blade. One longitudinal edge of the plate is bent upwardly as shown at 16 and then at right angles as shown at 17 to this upwardly bent portion to form a substantially straight lip which fits over one of the sharpened cutting edges 18 of the razor blade. That end of the plate most remote from the arcuate lip is bent upwardly at substantially right

angles to the blade as shown at 19 to form an arcuate stop that engages the corresponding edge of the blade and permits the mounting and removal of the razor blade from the plate and causes the blade to assume its proper position while being mounted upon the plate. It will be noted that that longitudinal edge of the plate most remote from the straight lip is rounded as shown at 20 and is positioned slightly beyond the middle longitudinal diameter of the blade so that the major portion of the blade is supported upon the plate. Formed integral with the end of the plate upon which the arcuate stop is arranged is a cylindrical stem 21, this stem having its outer periphery threaded as shown at 22 and having one side cut away to the axis of the stem as shown at 23. The axis of the stem is in alinement with the face of the plate upon which the lugs 13 extend.

For clamping the blade upon the plate, a clamping strip 24 is employed, this clamping strip preferably being formed from a single length of resilient material. The leading end of the strip is sharpened as shown at 25 to permit of the leading strip being readily engaged underneath the arcuate lip 15 of the plate. A plurality of sockets 26 are struck from the strip, these sockets receiving the projections 13 of the plate. Formed on one end of the strip is a semicircular extension 27 which is approximately the same in radius as the radius of the plate stem 21. The curved outer face of the extension is threaded as shown at 28, these threads coinciding with the threads upon the stem when the strip is in operative position.

Surrounding the stem 21 of the plate and extension 27 of the strip is a sleeve 29, this sleeve being of considerably greater length than the said parts and having its bore threaded as shown at 30 to receive the threads of the stem and extension. This sleeve when the extension and stem are threaded therein positively locks the plate and clamping strip from independent movement.

A suitable handle or grip 31 is provided at one end with a threaded pin 32 which projects into and engages the threaded bore of the sleeve. The pin 32 is of such size as to snugly bind in the sleeve when advanced therein and prevent accidental disengagement of the handle from the sleeve.

Formed in the stem of the blade is a peripheral semicircular shoulder 33 and formed on the extension of the clamping strip is a peripheral semicircular shoulder 34, these shoulders alining when the parts are inter-fitted and forming a continuous stop shoulder against which the leading end of the sleeve abuts when the latter is in position to clamp the clamping strip upon the plate.

10 To insert a razor blade in the holder, the leading end of the blade is inserted underneath the arcuate lip 15 of the plate and the blade dropped into engagement with the plate, then moved rearwardly so that one
15 of its cutting edges is engaged underneath the lip 15 of the plate. The lugs of the plate when the blade is in this position will be engaged in the circular openings of the blade and will project considerably beyond the
20 blade. The sharpened leading end of the clamping strip is now inserted underneath the arcuate lip of the plate and the clamping strip dropped into engagement with the blade, the sockets of the clamping strip engaging the lugs of the plate. When in this
25 position the thread of the extension formed on the clamping strip and threads of the stem formed on the plate will be in alignment so that the sleeve of the handle can

now be advanced upon the stem and extension until the leading end of the sleeve is in engagement with the peripheral shoulder of the stem and extension. To remove the blade, the above operation is reversed.

What is claimed is:—

A razor blade holder comprising a plate, marginal lips upon the plate for engaging the edges of a blade, a threaded stem integral with one end of the plate and having a portion of one side cut away, said plate
40 having a plurality of locking lugs adapted to project through the openings of a razor blade, a clamping strip having sockets to receive said projections and having its leading end engaged underneath one of said
45 marginal lips, said clamping strip having an extension fitting into the cut away portion of said stem and having peripheral threads alining with the threads of the latter, and a sleeve threaded upon said stem
50 and extension and locking the parts together.

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

FLORENCE J. BOWERS.

Witnesses:

ERNEST M. FLOOD,
ETHEL F. BOWERS.