C. A. HASSLER.

GLAZIER'S TOOL.

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1,126,996.

Patented Feb. 2, 1915

Fig. 1

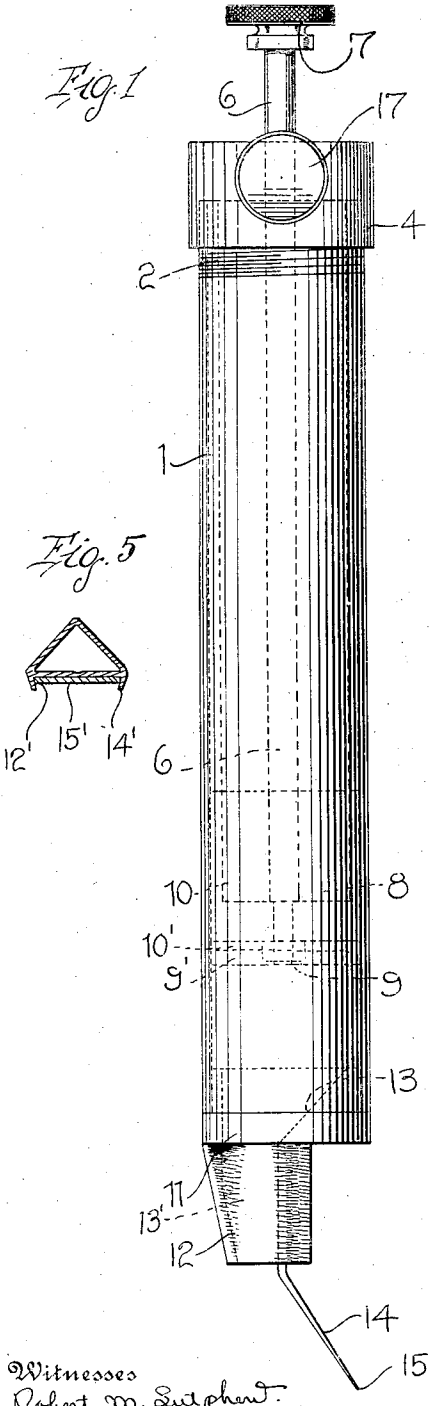


Fig. 2

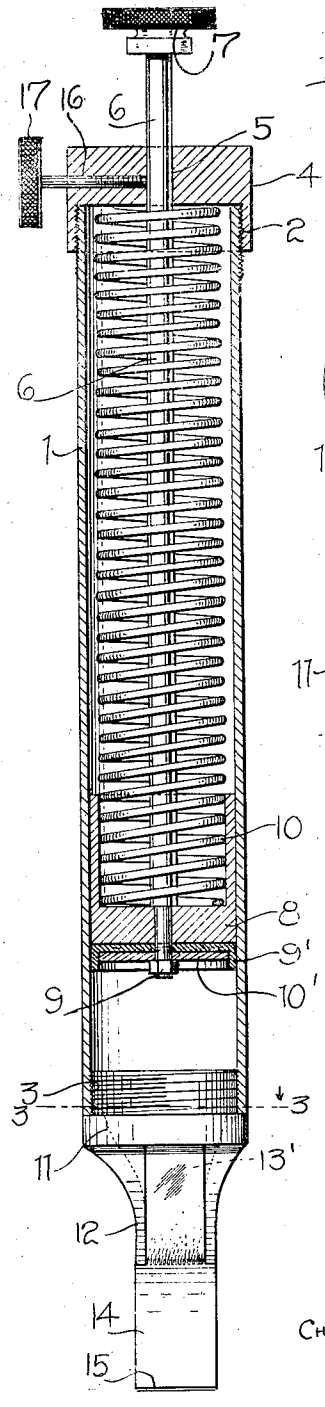


Fig. 3

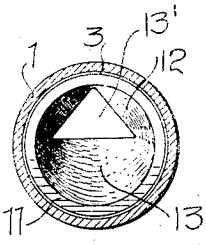


Fig. 4

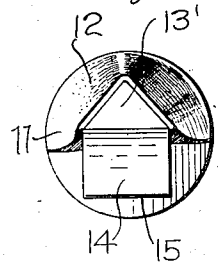


Fig. 5

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GLAZIER'S TOOL.

1,126,996. Specification of Letters Patent. Patented Feb. 2, 1915.

Application filed November 15, 1913. Serial No. 801,231.

To all whom it may concern:

Be it known that I, CHARLES A. HASSLER, a citizen of the United States, residing at Waynesboro, in the county of Franklin and State of Pennsylvania, have invented certain new and useful Improvements in Glaziers' Tools, of which the following is a specification, reference being had to the accompanying drawings.

This invention relates to improvements in glaziers' tools, and more particularly to tools for use in applying putty to the corners between the sash frames and the glass.

An object of this invention is the provision of a tool of this character comprising a cylinder for the reception of putty, the cylinder having a plunger slidably disposed therein to discharge the putty, the cylinder also having a triangular mouth piece through which the putty is discharged and a blade extending therefrom so that the putty may be disposed in right angular corners as it is discharged from the tool.

With these and other objects in view, this invention consists in the novel construction, combination and arrangement of parts to be hereinafter more fully described, claimed and illustrated in the accompanying drawing, in which—

Figure 1 is a side elevation of the tool; Fig. 2 is a longitudinal section showing the mouth piece in full lines; Fig. 3 is a section on the line 3—3 of Fig. 2; Fig. 4 is an end view of the mouth piece; and Fig. 5 is a detail sectional view taken transversely through the extension as herein embodied.

Referring more particularly to the drawing, the numeral 1 designates a cylinder which is threaded externally as at 2 at one end and internally as at 3, at the opposite end thereof. A cap 4 is threaded upon the threads 2 of the cylinder, the cap being provided with a central opening 5 through which a plunger rod 6 extends within the cylinder. One extremity of the plunger rod is threaded for the reception of the thumb screw 7, whereby the plunger may be readily moved outwardly and inwardly of the cylinder. The other end of the plunger rod is provided with a reduced threaded extension upon which a plunger 8 is mounted, a nut 9 being threadedly engaged on the plunger rod outwardly of the plunger to hold the plunger in its adjusted position upon the rod. A spiral spring 10 is disposed around the plunger rod 6 one end of the spring bearing against the cap 4, and the opposite end of the spring bearing against the plunger 8, to normally maintain the plunger in the outer end of the cylinder.

Mounted upon the lower end of the plunger rod 6 is a cup shaped washer 9′ and arranged between the cup shaped washer and the nut 9 is a metal washer 10′ which is adapted to securely retain the central portion of the washer 9′ in position. It will be readily understood that by having the edges of the washer 9′ extending downwardly, the putty upon the downward movement of the plunger will press against the edges of the washer and spread the same out against the walls of the cylinder and thus prevent any of the putty from being formed back between the plunger and the inner wall of the cylinder. It will be apparent that without this cup-shaped washer, there will be nothing to prevent the putty from being forced back as the flexible outer edge of the washer will spread out and prevent the putty from backing up any farther.

A mouth piece 11 is threadedly connected to the threads 3 in the outer end of the cylinder 1, the mouth piece having a reduced triangular extension 12 extending longitudinally from one side thereof. The inner wall of the mouth piece 11 is tapered inwardly on one side as at 13, so as to guide the putty within the cylinder to the triangular opening 13′ in the extension 12. A blade 14 extends outwardly at an acute angle from one wall of the extension 12, the outer edge of the blade being beveled to provide a cutting edge 15. The extension 12 is provided upon one face thereof with a groove 12′ having undercut side walls which form the inwardly extending flanges 14′. Removably arranged within this groove and disposed beneath the inwardly extending flanges is the shank portion 15′ of the blade 14. From this construction it will be readily apparent that the blade may be quickly and readily removed from the extension 12 to be sharpened or for various other purposes, as the insertion of a new blade or the like. A transversely extending threaded opening 16 is formed in the cap 4, the opening 16 communicating with the opening 5 in the cap, and a set screw 17 is adjustably disposed in the opening 16, the head of the set screw being adapted for engagement with the pe-

riphery of the plunger rod 6 to hold the plunger in any desired position within the cylinder.

In the practical use of my device, the mouth piece 11 is removed from the outer end of the cylinder, and the plunger 8 is moved rearwardly of the cylinder against the action of the spring 10, the plunger being held in such position by the engagement of the set screw 17 therewith. The cylinder is then filled with putty or the like, and the mouth piece 11 is again connected to the outer end of the cylinder whereupon the device is ready for use. When it is desired to apply the putty to the corners between the sash frame and the glass, the extension of the mouth piece is arranged so that the corner thereof opposite the blade 14 is disposed in the corner between the sash frame and the glass, so that the opposite end of the free edge of the blade rests against the glass and the sash. When the device is in this position, the set screw 17 may be disengaged from the plunger rod 6, so that the plunger may move outwardly in the cylinder under the tension of the spring 10 to force the putty out of the triangular extension 12 of the mouth piece, and the tool may be moved downwardly so that the putty is fed at its proper place the entire length of the glass, whereupon the set screw 17 may be engaged with the plunger rod 6 to stop the outward movement of the plunger. The blade 14 presses the putty in its proper position as the tool is moved over the glass. As the free edge of the blade 14 is sharpened, it may be used to dislodge any hardened putty from the window sash before the new glass is applied thereto. The tension of the spring 10 may be regulated by adjusting the plunger 8 upon the threaded extension 9 of the plunger rod, whereby the distance between the plunger 8 and the cap 4 against which the opposite ends of the spring rest may be adjusted.

From the above description taken in connection with the accompanying drawings, it will be seen that I have provided a tool for applying putty to corners, the tool comprising a small number of parts which may be readily taken apart, and one which will apply the putty to the corners and press it in position therein with one motion of the tool.

What I claim is:

A tool of the character described comprising a cylinder, a cap connected to one end of said cylinder, a plunger rod mounted in said cylinder and projecting through said cap, means for holding said plunger rod in adjusted position within said cylinder, a plunger mounted on said plunger rod within said cylinder, a spring disposed between said plunger and said cap, a mouth piece detachably connected to the other end of said cylinder, said mouth piece having an extension triangular in cross section, and a blade extending from said extension at an acute angle, as and for the purpose described.

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

CHARLES A. HASSLER.

Witnesses:

JOHN R. EASTON,

ELMER F. NAILLE.