This invention relates to a combination putty knife and tool.

Objects of this invention are to provide a tool which is particularly adapted for glaziers' use, and which is provided with a manipulating handle carrying a putty knife, and with means whereby a screw-driver or similar tool may be projected therefrom and temporarily locked in position or else housed within the handle, and in which a combined hammer and bottle opener or can opener is carried by the handle.

An embodiment of the invention is shown in the accompanying drawings, in which:

Fig. 1 is a side view of the device with a portion of the handle broken away to show the interior construction;
Fig. 2 is a fragmentary view with parts broken away and showing the screw-driver extended;
Fig. 3 is an end view of the device;
Fig. 4 is a sectional view on the line 4—4 of Fig. 1; and
Fig. 5 is a sectional view on the line 5—6 of Fig. 1.

Referring to the drawings, it will be seen that a putty knife 1 is provided with a shank 2 which extends completely through the handle. The handle is made of a pair of members as most clearly shown in Figs. 4 and 5. One of the members 3 is attached to one side of the shank 2 of the putty knife, and the other member 4 is attached to the other side thereof. The member 4 is recessed to receive certain mechanism hereinafter described. Preferably the shank of the putty knife is continued outwardly laterally of the outer end of the handle to the point indicated by the dotted line 5 in Figs. 1 and 2, and a hammer head 6 is riveted thereto, such hammer head being slotted to receive the tongue of the putty knife. Further the extension of the putty knife is provided with a bottle or can opener 7 adjacent the body of the handle.

A sliding rack 8 is provided and is so shaped at its outer end that it forms a screw-driver 9. This rack is smooth on one edge and is carried by a rack-guide 10 secured to the shank 2 of the handle. On its other edge, it is provided with a plurality of teeth 11 which are engaged by the small gear wheel 12. Preferably, the teeth end, and the body of the rack continues to form stops to limit the inward or outward motion of the screw-driver. Further, it will be noted that a latch 13 is provided with a notch for receiving the rear end of the shank of the screw-driver and is provided with a bell-crank arm 14 projecting beyond the outline of the handle to permit release of the latch. The latch is urged towards latching position by means of a spring 15, one end of which may be soldered or otherwise secured to the rack-guide.

The small gear wheel 12 is secured to a shaft 16, which is preferably provided with an enlarged collar 17 near its inner end and bearing against the shank 2 and with a manipulating nulled thumb-nut or handle 18 at its outer end.

In using the device, the putty knife is manipulated in the usual manner. When, however, it is desired to use the screw-driver, for instance, in clearing away hardened putty or else in its usual capacity, it is merely necessary to rotate the thumb-nut and thus project the screw-driver, the latch 13 snapping into locking position. The retraction of the screw-driver is readily accomplished by pressing the lever 14, and thus releasing the latch. Thereafter, the screw-driver may be retracted by reversely rotating the thumb-nut or nulled wheel 18.

The glazier work frequently requires opening of cans or bottles, which may be readily accomplished by the opener 7. Further, the points which secure the glass panes in place may be readily driven home by the hammer 6.

It will be seen that a composite tool for glaziers' use has been provided which is of very compact formation, which is easily handled, and which provides all of the usual tools required in this work.

Although the invention has been described in considerable detail, such description is intended as illustrative rather than limiting, as the invention may be variously embodied and as the scope of such invention is to be determined as claimed.

I claim:

1. The combination of a blade having a shank, a two-part handle secured on opposite sides of said shank and forming a housing with said shank, a rack-guide secured to said shank and located within said housing, a rack slidably mounted within said guide and provided with rack teeth, a relatively small toothed wheel engaging said teeth and carried by a laterally
projecting shaft, a manipulating wheel secured to the outer end of said shaft on the outer side of said handle, said rack having a tool end.

5. The combination of a blade having a shank, a two-part handle secured on opposite sides of said shank and forming a housing with said shank, a rack-guide secured to said shank and located within said housing, a rack slidably mounted within said guide and provided with rack teeth, a relatively small toothed wheel engaging said teeth and carried by a laterally projecting shaft, a manipulating wheel secured to the outer end of said shaft on the outer side of said handle, said rack having a tool end, and a spring catch adapted to lock said rack in projected position and having a releasing arm projecting outwardly from said handle.

In testimony that I claim the foregoing I have hereunto set my hand at Milwaukee, in the county of Milwaukee and State of Wisconsin.

OSCAR R. HEBNER.