

No. 812,325.

PATENTED FEB. 13, 1906.

W. BROWER.
CUTTING AND REAMING KNIFE.
APPLICATION FILED AUG. 14, 1905.

FIG. 1

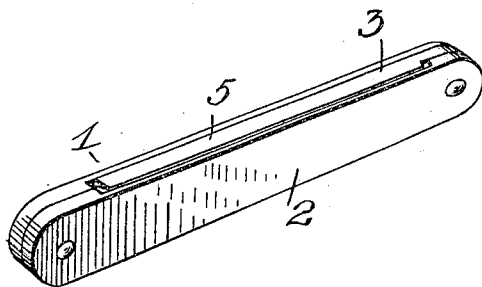


FIG. 2

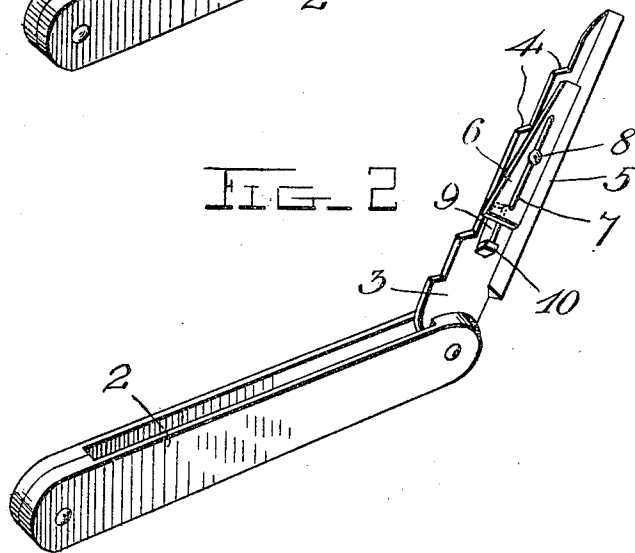
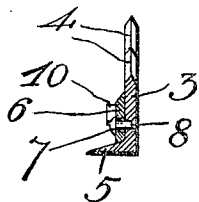


FIG. 3



Witnesses
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CUTTING AND REAMING KNIFE.

No. 812,325.

Specification of Letters Patent.

Patented Feb. 13, 1906.

Application filed August 14, 1905. Serial No. 274,150.

To all whom it may concern:

Be it known that I, WILLIAM BROWER, a citizen of the United States, residing at Manlius, in the county of Bureau and State of Illinois, have invented certain new and useful Improvements in Cutting and Reaming Knives; and I do 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 improvements in cutting and reaming tools.

The object of the invention is to provide a tool of this character constructed in the form of a knife the blade of which is adapted to be closed into the handle, said blade being provided with one or more cutting edges adapted to ream out holes in leather, wood, or other material.

With the above and other objects in view the invention consists of certain novel features of construction, combination, and arrangement of parts, as will be hereinafter described and claimed.

In the accompanying drawings, Figure 1 is a perspective view of the knife, showing the blade in closed position. Fig. 2 is a similar view showing the blade in open position. Fig. 3 is a cross-sectional view through the blade shown in Figs. 1 and 2.

Referring more particularly to the drawings, 1 denotes the knife, consisting of a handle 2, in which is hingedly mounted a blade 3, one edge of which tapers from the hinged end of the blade to the point of the same. In said tapering edge of the blade is formed a series of notches forming offset edges 4, said edges being sharpened, as shown. The width of the blade between the offset edge 4 and the back edge thereof increases from the point toward the hinged end of the blade, said edges, however, each being parallel with said back edge of the blade. The straight back edge of the blade 3 is turned or bent to form a laterally-projecting flange 5, which is disposed at right angles to the blade. Slidably mounted on the blade 3 is a plate 6, one edge of which is obliquely disposed with respect to the opposite straight edge of the same, said straight edge being adapted to slidably engage the inner side of the flange 5 on the blade 3. The obliquely-disposed edge of the plate 6 is formed at an angle to corre-

spond to the angle of the adjacent edge of the blade 3. The plate 6 is provided with a longitudinally-disposed slot 7, through which projects a headed pin or bolt 8, said bolt being secured in the blade 3, thereby slidably or adjustably securing the plate 6 onto the blade 3. In the blade 3 is formed a longitudinally-disposed slot 9, over which the plate 6 is adapted to slide, and at the inner end of the slot 9 is formed the laterally-projecting lug 10, against which the inner end of the plate 6 is adapted to engage.

A cutting and reaming knife made in accordance with my invention may be used for perforating a strap, and by turning the tool the hole is made round by means of the laterally-extending cutting edge 5. Offset portions 4 prevent the blade from passing through the strap and determine the size of the hole to be made therein. When it is desired to make a countersunk hole in the strap, the plate 6 is brought into operation by moving it into position for forming a tapered side to the hole or aperture. It will be noted that by reason of the parallel edges 4 of the notched form of blade (shown in Fig. 2 of the drawings) the hole formed thereby will be provided with square or right-angularly disposed edges.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. A tool of the character described comprising a handle, a tapering blade connected to said handle, said blade having one of its edges turned or bent longitudinally, and a series of notches arranged in the opposite edge of said blade to form parallel offset cutting edges, substantially as described.

2. A tool of the character described comprising a handle a tapering blade connected to said handle, said blade having formed therein a longitudinally-disposed slot, and having one of its edges turned or bent longitudinally, a series of notches arranged in the opposite edge of said blade to form offset, parallel cutting edges, and a plate adjustably mounted on one side of said blade to slide over the slot in the latter, substantially as described.

3. A tool of the character described comprising a handle, a slotted blade pivotally connected to said handle to close therein, one

edge of said blade being obliquely disposed
or tapered toward the point of the same, a
series of offset cutting edges formed in said
oblique edge, a laterally-projecting flange
5 formed on the straight back edge of said
blade and a plate adjustably secured to the
former to slidably engage said flange, sub-
stantially as described.

In testimony whereof I have hereunto set
my hand in presence of two subscribing wit- ro
nesses.

WILLIAM BROWER.

Witnesses:

GEORGE LATTA,
FRED X. SLEMIN.