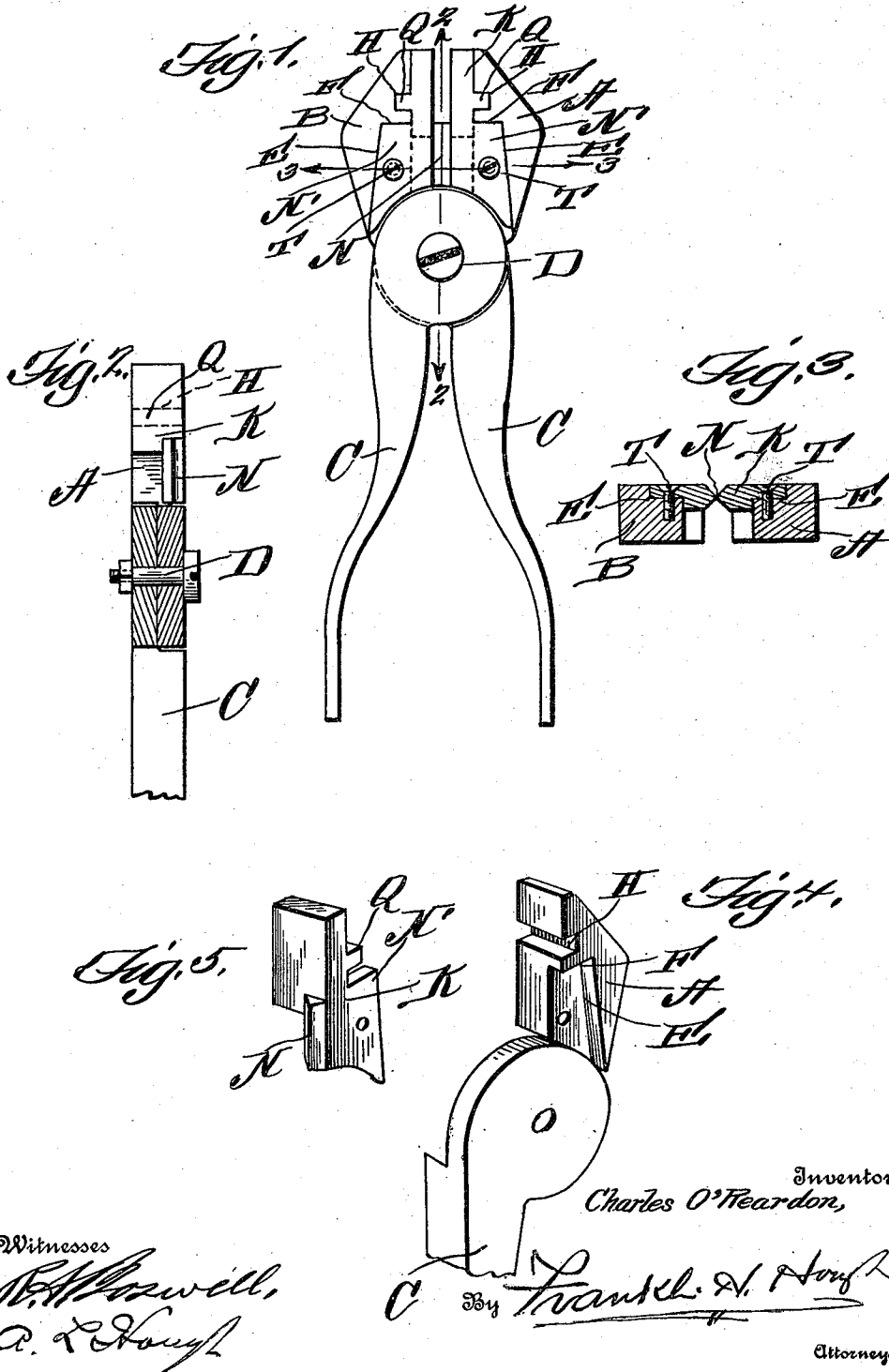


C. O'REARDON.
ADJUSTABLE KNIFE AND JAW FOR PLIERS.
APPLICATION FILED JAN. 19, 1918.

1,276,256.

Patented Aug. 20, 1918.



UNITED STATES PATENT OFFICE.

CHARLES O'REARDON, OF PHILADELPHIA, PENNSYLVANIA.

ADJUSTABLE KNIFE AND JAW FOR PLIERS.

1,276,256.

Specification of Letters Patent. Patented Aug. 20, 1918.

Application filed January 19, 1918. Serial No. 212,811.

To all whom it may concern:

Be it known that I, CHARLES O'REARDON, a citizen of the United States, residing at Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented certain new and useful Improvements in Adjustable Knives and Jaws for Pliers; and 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, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon, which form a part of this specification.

This invention relates to new and useful improvements in adjustable knife and jaw for pliers and consists in the provision of means whereby the knife upon the pliers may be removed and replaced with others, thus prolonging the life of the device.

In the use of cutting pliers it is found that the inner ends of the cutting edges, where the greatest pressure comes, frequently wear away, thus ending the usefulness of the same, making it necessary to throw the pliers away. Whereas, by the provision of the removable knife and jaw the parts which become worn may be easily replaced, therefore greatly increasing the life of the pliers.

The invention comprises further details of construction, combinations and arrangements of parts which will be hereinafter fully described, shown in the accompanying drawings and then specifically defined in the appended claims.

I illustrate my invention in the accompanying drawings which, with the letters of reference marked thereon, form a part of this specification and in which:

Figure 1 is a side elevation showing the pliers made in accordance with my invention.

Fig. 2 is a sectional view on line 2—2 of Fig. 1.

Fig. 3 is a sectional view on line 3—3 of Fig. 1.

Fig. 4 is a view of one of the jaws with the knife removed, and

Fig. 5 is an enlarged detail perspective of one of the cutter knives with integral jaw plate.

Reference now being had to the details of the drawings by letter:

A and B designates two jaws of the pliers, each having a shank portion C which are

pivoted together at D. Each jaw has a recessed portion E terminating in a shoulder F, and the inner face of the jaw is provided with a transverse groove H.

The interchangeable knife and jaw plate shown in Fig. 5 is designated by letter K and has a cutting edge N with a shouldered portion N', which is adapted to engage the recessed and shouldered portions E and F respectively of the jaw, as shown. Projecting from the rear face of the jaw plate K is a rib Q which, when the device is adjusted in place, engages the transverse groove H. A set screw T is passed through an aperture in the shank portion of the knife and engages a threaded aperture in the jaw of the pliers, and affords means for securely holding the interchangeable knife and jaw plate. When the removable knife and jaw plate is adjusted in place in the manner shown in Fig. 1 of the drawings, it will be noted that the interlocking of the rib with the transverse groove and the end of the inner edge of the shank portion of the knife coming in contact with the shoulder in the jaw of the pliers will hold the jaw plate against any possible movement toward the end of the pliers. As the inner edge of the shank portion of the knife bears against the wall of the recess in the jaw of the pliers any lateral movement of the jaw plate and knife will be prevented.

When the knife is held by the screw to the jaw of the pliers, it will be noted that all pressure which may come upon the knife or the integral jaw plate will be upon the jaw of the pliers and not upon the screw, the latter merely serving to hold the knife and integral jaw plate in place. When the knife becomes worn out it may easily be removed and replaced by a new one, thus appreciably lengthening the usefulness of the pliers and effecting a substantial saving in the expense of new pliers.

What I claim to be new is:

1. In combination with a pair of pliers having jaws, each provided with a recessed portion and a transverse groove, a knife with integral jaw plate, said knife adapted to engage the recessed portion of the jaw and the jaw plate having a transverse rib for engagement with said groove, said jaw having a shoulder at the end of the recessed portion, against which the end of the shank portion of the knife is adapted to bear, and cooperating with the interlocking groove

and rib to prevent the knife from moving toward the free ends of the jaws of the pliers, and means for fastening the knife to the jaw.

- 5 2. In combination with a pair of pliers having jaws, each provided with a recessed portion and a transverse groove, a knife with integral jaw plate having a transverse rib upon the face thereof adapted to engage
10 said groove in the jaw, the inner edge of the shank portion of the knife adapted to bear

against the wall of the recessed portion of the jaw, and having a shoulder engaging the inner edge of the recess of the jaw, a set screw passing through the shank portion of the knife and engaging a threaded aperture in the jaw.

In testimony whereof I hereunto affix my signature in presence of a witness.

CHARLES O'REARDON.

Witness:

A. L. HOUGH.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."