

(No Model.)

H. F. OSBORNE.  
NUT PLIERS.

No. 321,133.

Patented June 30, 1885.

Fig. 3.

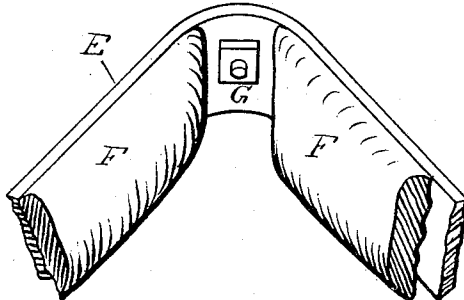


Fig. 1.

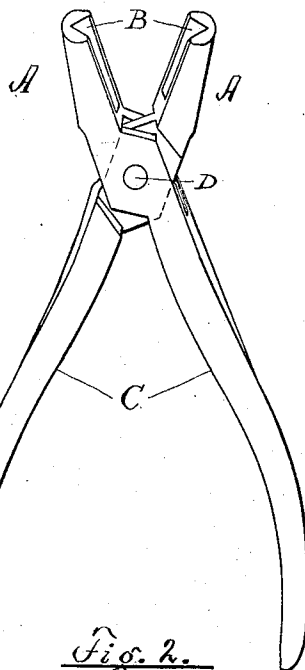


Fig. 2.



Attest.

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# UNITED STATES PATENT OFFICE.

HENRY F. OSBORNE, OF NEWARK, NEW JERSEY.

## NUT-PLIERS.

SPECIFICATION forming part of Letters Patent No. 321,133, dated June 30, 1885.

Application filed February 23, 1883. Renewed February 24, 1885. (No model.)

*To all whom it may concern:*

Be it known that I, HENRY F. OSBORNE, a citizen of the United States, residing in the city of Newark, in the county of Essex and State of New Jersey, have invented certain new and useful Improvements in Nut-Pliers, fully described and represented in the following specification and the accompanying drawings, forming a part of the same.

10 This invention consists in providing the jaws of a pair of pliers with longitudinal notches adapted to fit the corner of a nut.

The invention is shown in the annexed drawings, in which Figure 1 is an oblique side view of a pliers, showing my invention; Fig. 2, an end view of the jaws of the same; and Fig. 3, a saddle-tree, showing a nut in place and upon which these pliers are particularly designed to operate.

20 A A are the jaws; B, the longitudinal notches; C, the handles; D, the joint; E, the saddle-tree; F, the cushions, and G the nut under the bridge.

My device is used to operate upon nuts placed in positions difficult of access, and was particularly designed for tightening nuts upon the rein-holder in the center of the arch and between the cushions on the under side of a saddle-tree.

30 Saddlers have heretofore generally used a common pair of pliers in screwing the nut into its place upon the screw attached to the rein-holder under the center of the tree, and

have been caused a great amount of trouble and inconvenience by the pliers continually losing their hold upon the nut, and have been unable to avoid this trouble by the employment of a wrench.

The combination of the grooves B with the jaws of the pliers enables the operator to work with more effect upon the nut and with less effort than when an ordinary pliers is employed, since the shape of the jaws permits him to obtain a much stronger grip upon the nut and to retain it without difficulty during the screwing operation.

As such nuts are usually four-sided, the notches B are shown in Fig. 2 as of rectangular shape, and are equally well adapted with such shape to grasp nuts of four or six sides.

Having described my invention, I claim it in the following manner:

1. The combination of the longitudinal notches B with the jaws of a pair of pliers, substantially as shown and described.

2. As a new article of manufacture, a pliers having jaws provided with longitudinal notches adapted to fit the corners of a nut, substantially as shown and described.

In testimony whereof I have hereunto set my hand in the presence of two subscribing witnesses.

HENRY F. OSBORNE.

Witnesses:

HENRY F. GÖKEN,  
W. F. D. CRANE.