

Bit Stock,

*Patented Sep. 25, 1866.*



*Inventor:*  
*Oliver Ellsworth*

# UNITED STATES PATENT OFFICE.

OLIVER ELLSWORTH, OF BOSTON, MASSACHUSETTS.

## IMPROVEMENT IN BIT-STOCKS.

Specification forming part of Letters Patent No. 58,234, dated September 25, 1866.

*To all whom it may concern:*

Be it known that I, OLIVER ELLSWORTH, of Boston, Suffolk county, State of Massachusetts, have invented certain new and useful Improvements in the Mode of Attaching Tools to Handles; and I do hereby declare the following description and accompanying drawings are sufficient to enable any person skilled in the art or science to which they most nearly appertain to make and use my improvements without further invention or experiment.

The nature of my invention consists in the peculiar construction and arrangement of the devices described and claimed in the following specification.

Figure 1 of the accompanying drawings is an elevation of the end of a bit-stock with my improvements to hold in a bit. Fig. 2 is an end view without the bit. Fig. 3 are the clamping-jaws and spring. Figs. 4, 5, and 6 are elevations.

In these drawings, A A is the end of the bit-stock, and L the shank. The end A has a square socket in it to receive the shank of the bit M, which is fitted to it.

There is a groove made in each side of the end A, to which grooves the clamping-jaws

C C are fitted, so as to vibrate freely on the pins D D, and are pressed apart by the spiral spring I below the tool-socket. These jaws have projections E E to clamp the bit and hold it firmly when the nut G is screwed toward the end A, and acts against the inclined planes K K on the outer sides of the jaws, the nut G having a female-screw fitted to the screw P on the end A, and the outside of the nut G is ribbed and scored or milled, so that it may be turned with facility by the thumb and fingers. When the nut G is screwed back from the end the jaws are opened by the spring I, as shown in Fig. 4, so that the bit may be removed and another inserted.

What I claim as my invention and improvement is—

The arrangement of the jaws C C, pivoted on the pins D D, with spring I, stationary screw P, and traversing nut G, the whole constructed as described, for the purposes set forth.

OLIVER ELLSWORTH.

Witnesses:

WILLIAM A. DAVIS,

THOMAS F. DAVIS.