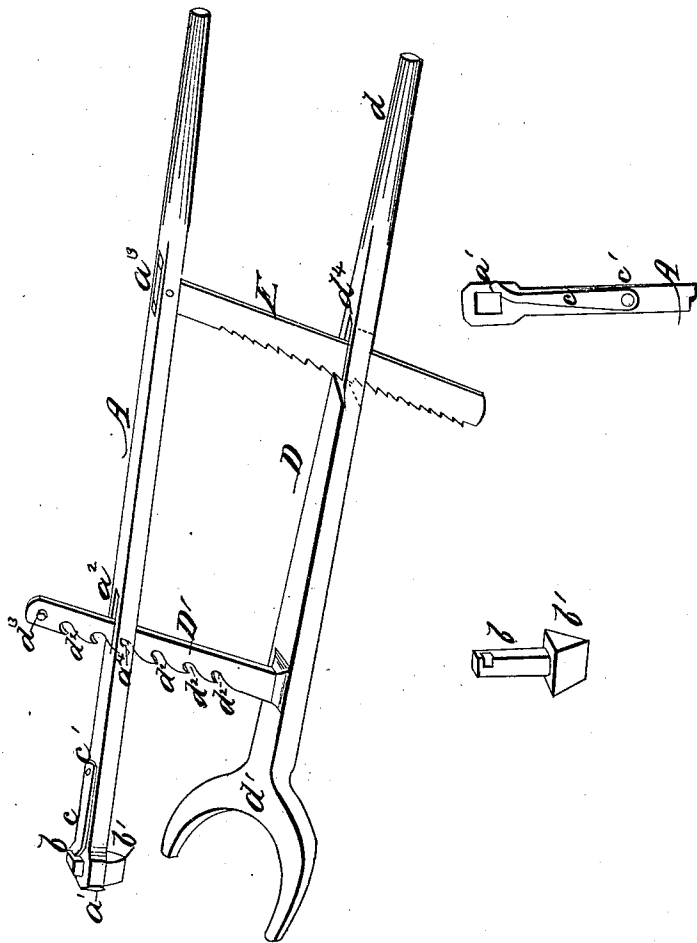


G. W. Phelps,

Clinchers.

N<sup>o</sup> 80,998.

Patented Aug. 11, 1868.



Witnesses.  
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# United States Patent Office.

GEORGE W. PHELPS, OF CONNEAUT, OHIO.

Letters Patent No. 80,998, dated August 11, 1868.

## IMPROVEMENT IN BOLT-HOLDERS.

The Schedule referred to in these Letters Patent and making part of the same.

### TO ALL WHOM IT MAY CONCERN:

Be it known that I, GEORGE W. PHELPS, of Conneaut, in the county of Ashtabula, and State of Ohio, have invented new and useful Improvements in Bolt-Holders; and I do hereby declare that the following is a full and exact description of the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

This invention consists in an improved device for holding bolts firmly, for the purpose of turning the nut on or off.

The construction and manner of operation will be fully described hereinafter.

Figure 1 represents a perspective view of my improved device, and

Figures 2 and 3 views of parts detached.

In the drawings—

A represents a lever, provided with the square head  $a^1$ , in which is inserted the shank  $b$ , of the steel wedge  $b'$ , which latter rests upon the head of the bolt when in operation.

$c$  represents a catch or button, pivoted at  $c^1$ , the free end of which fits into a notch in the upper end of the shank of the wedge  $b$ . This catch is arranged so as to swing aside, when desired, and permit the shank  $b$  to drop out.

$a^2$   $a^3$  represent slots in the lever A, in the former of which is placed the transverse pin  $a^4$ , as shown. In the latter is pivoted the notched bar E.

D represents a lever, which terminates at one end in the handle  $d$ , and at the other in the half circle  $d^1$ .

D' represents a bar, rigidly attached to one side of lever D, which bar is provided at regular intervals with the hooked notches  $d^2$ . When in place, the end of the bar D' is passed through the slot  $a^2$ , of lever A, and is secured therein by means of the pin  $a^3$ .

E represents a notched bar, one end of which is pivoted in the slot  $a^3$ , of the lever A, the other of which moves freely up and down in the slot  $d^1$ , of bar D. This slot is inclined upon one side, for the purpose of holding the teeth of the bar E.

From this description, the operation of my invention will be readily understood.

The levers A D having been set at the proper distance apart to take in the bolt readily, which adjustment is easily made, by hooking any one of the notches  $d^2$  over the pin  $a^4$ , of the slot  $a^2$ , the sharp wedge of the lever A is placed upon the head of the bolt, and the handles of the levers drawn apart. When the bolt is firmly clamped, the proper tooth of the bar E is allowed to engage with the side of the slot  $d^1$ , by which means the levers are securely retained in the desired position. The nut is then turned on or off, as may be desired, the semicircle  $d^1$  permitting a wrench or other instrument to be readily used. By the arrangement of the button  $c$ , the wedge may be easily changed for one of a different size, or it may be removed for the purposes of sharpening, &c.

This device may be used for holding bolts of any kind, but it is especially useful in cases where round bolts are used, as in fastening wagon-tires.

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

The bolt-holder, consisting of the lever A, wedge  $b'$ , button  $c$ , lever D, bar D', and bar E, constructed and arranged as herein described.

This specification signed and witnessed, this eleventh day of May, 1868.

GEO. W. PHELPS.

Witnesses:

LOREN GOULD,  
HENRY W. GOULD.