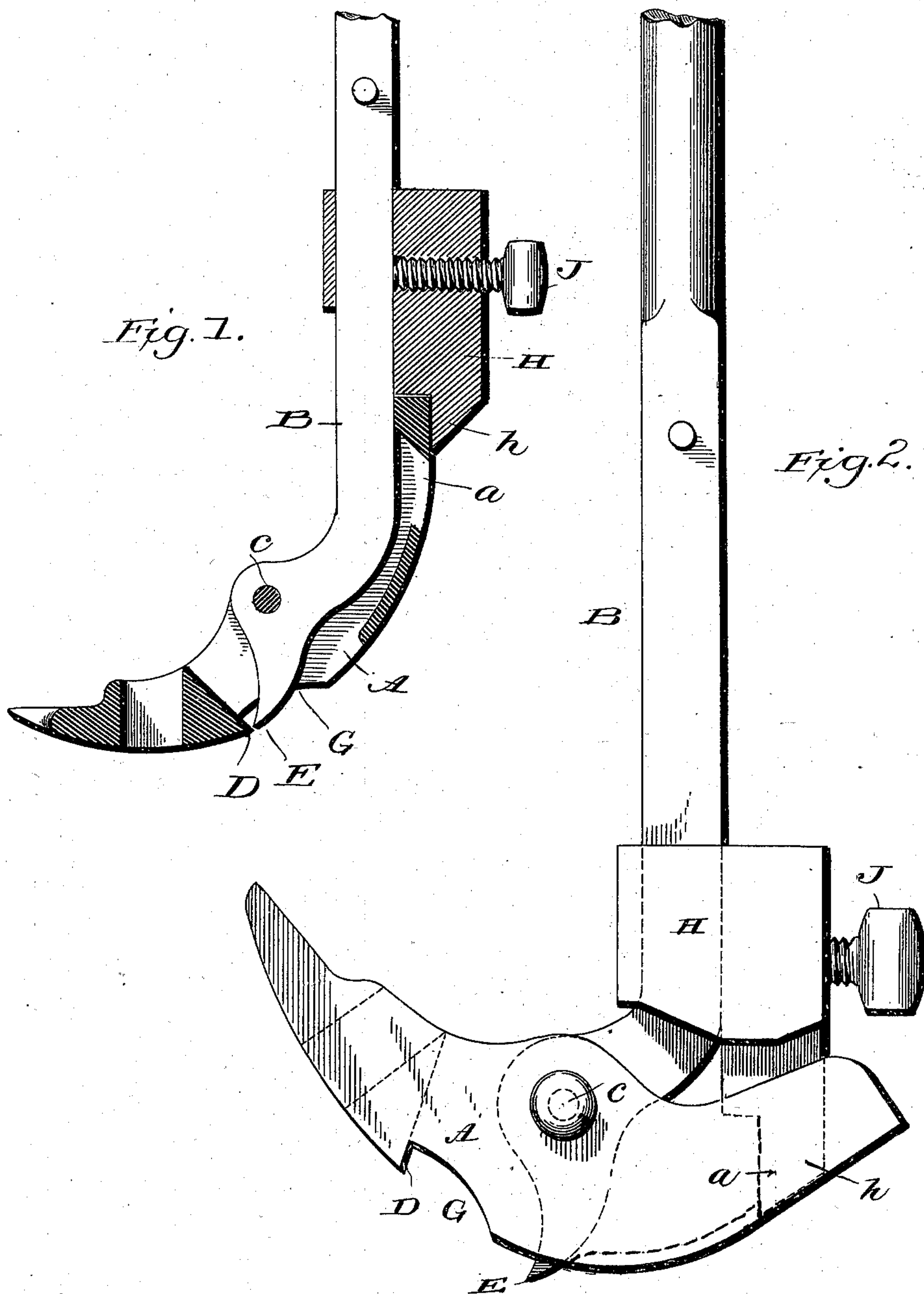


(No Model.)

H. N. LEWIS.  
TOOL FOR DRAWING SPIKES OR BOLTS.

No. 558,968.

Patented Apr. 28, 1896.



Witnesses:  
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Atty.



# UNITED STATES PATENT OFFICE.

HOWELL NORMAN LEWIS, OF GREEN COVE SPRINGS, FLORIDA.

## TOOL FOR DRAWING SPIKES OR BOLTS.

SPECIFICATION forming part of Letters Patent No. 558,968, dated April 28, 1896.

Application filed February 18, 1896. Serial No. 579,723. (No model.)

*To all whom it may concern:*

Be it known that I, HOWELL NORMAN LEWIS, a citizen of the United States, residing at Green Cove Springs, in the county of Clay and State of Florida, have invented certain new and useful Improvements in Tools for Drawing Spikes or Bolts; 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, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

This invention relates to certain new and useful improvements in tools for drawing bolts on railroad and bridge work, it being especially designed to pulling drift-bolts and spikes having either small or no heads at all, the invention being an improvement upon the tool for which I have been allowed a patent, the application bearing Serial No. 557,494.

A further object of my improved tool resides in the provision of means whereby the head of the same may be held at its forwardmost throw or limit by means of a slide carried on the handle, which slide or sleeve has a projecting portion which is designed to register with an aperture extending through the heel of the claw and having its end flush with the lower curved surface of the pivoted shoe, whereby the strain may be thrown somewhat on the extended portion of the slide when the shoe is in a certain position and in the act of drawing a bolt.

A further aim of my invention is to provide a means of getting a nipping hold on headless bolts or spikes or such as offer only a short portion of their length capable of being gripped by a tool, which consists in forming a biting edge between the lower free end of the main handle and a sharp edge at the outer portion of a recess in the shoe.

To these ends and to such others as the invention may pertain, the same consists, further, in the novel construction, combination, and adaptation of the parts, as will be hereinafter more fully described, and then specifically defined in the appended claim.

I clearly illustrate my invention in the accompanying drawings, which, with the letters

of reference marked thereon, form a part of this specification, and in which drawings similar letters of reference indicate like parts throughout the several views, in which—

Figure 1 is a central vertical section through the shoe and handle, showing the heel of the shoe locked to the rear side of the handle. Fig. 2 is a similar view, the shoe being tilted, showing the extended portion of the slide locking the shoe in a tilted relation and the lower end of the slide or extension thereof flush with the lower curved surface of the shoe.

Reference now being had to the details of the drawings by letter, B designates the handle of the tool, which is pivoted in a recess in the shoe A and to the walls thereof on a pin c. The lower surface of the said shoe is convex in outline, and the lower wall of the recess of the shoe, in which is pivoted the handle, slants upward and forward at an angle, preferably, of about forty degrees and its lower limit forming, with that of the lower surface of the shoe, a sharp edge D, against which edge the sharp edge E of the handle is adapted to bite. The lower walls of the said recess are cut away, as seen at G, so as to allow spikes or bolts of different widths being gripped.

The slide H works up and down on the handle B and carries a thumb-screw J, whereby the slide may be locked at different locations on the handle. Near the heel of the shoe is a perforation or aperture a, of such a size as to allow the extension h of the slide H to register therewith when it is desired to lock the shoe in the position shown in Fig. 2. When the shoe is locked in the last-named position, it will be seen that the lower end of the extension is flush with the lower surface of the shoe and may form a fulcrum in the act of drawing a bolt. When the slide is in the position shown in Fig. 1, the said extension serves to lock the heel of the shoe to the back side of the handle, as will be readily seen.

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

A tool for drawing drift-bolts, spikes &c., consisting of a shoe, a handle pivoted in a re-

cess in said shoe, a slide adjustably held on  
the handle, an extended portion of the slide,  
designed to register with an aperture in the  
heel of the shoe, and to have its lower end  
5 flush with the lower surface of the shoe, and  
means for locking the same in the said aper-  
ture, substantially as shown and described.

In testimony whereof I affix my signature  
in presence of two witnesses.

HOWELL NORMAN LEWIS.

Witnesses:

J. D. CHISHOLM,  
W. W. SHEDD.