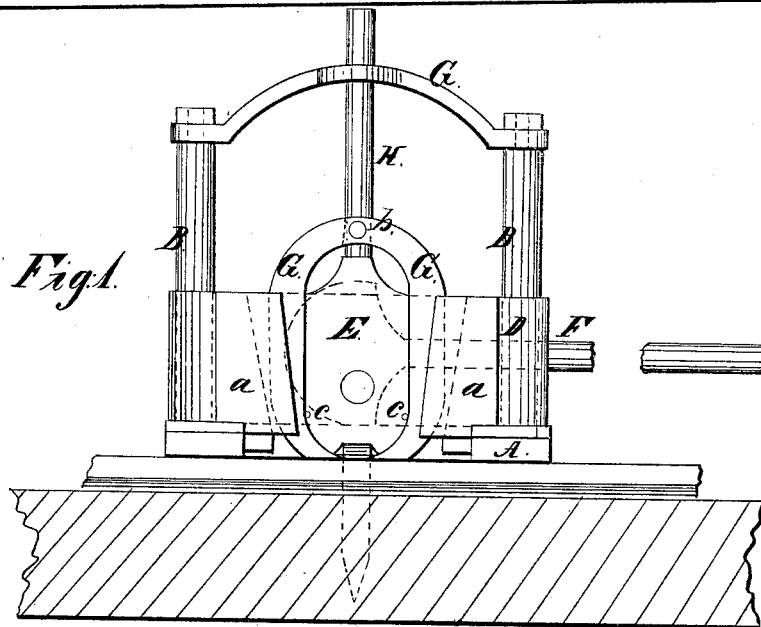
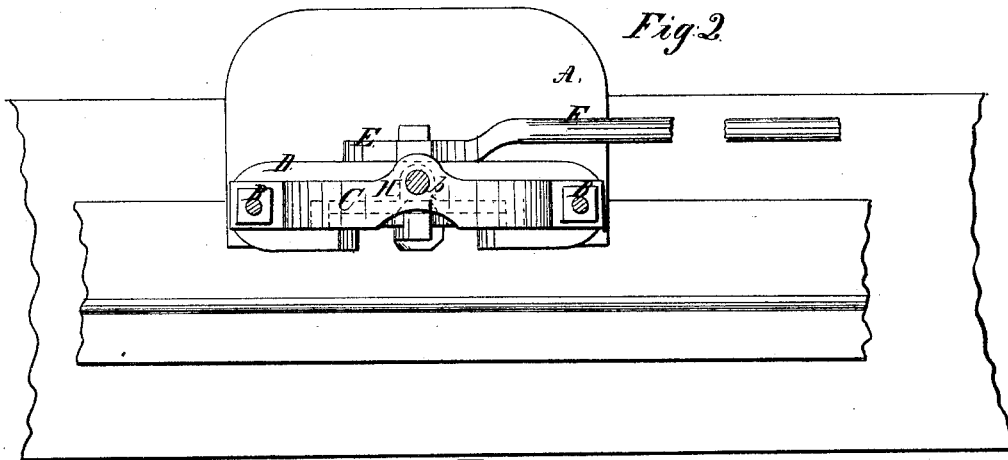


N. Adams,
Spike Extractor,
No. 49,690, Patented Sep. 5, 1865.



Witnesses:

Wm. Brown
Geo. Tinsley

Inventor:

Nathan Adams
per Murus & Co
attys.

UNITED STATES PATENT OFFICE.

NATHAN ADAMS, OF ALTOONA, PENNSYLVANIA.

MACHINE FOR DRAWING SPIKES.

Specification forming part of Letters Patent No. 49,690, dated September 5, 1865.

To all whom it may concern:

Be it known that I, NATHAN ADAMS, of Altoona, in the county of Blair and State of Pennsylvania, have invented a new and Improved Machine for Drawing Spikes; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable those skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a front view of my invention; Fig. 2, a plan or top view of the same.

Similar letters of reference indicate corresponding parts.

This invention relates to a new and improved device for drawing spikes, more especially designed for drawing railroad-spikes; and it consists in the employment or use of a sliding stock in connection with jaws or nippers and a lever, all arranged in such a manner that the desired work may be performed expeditiously and without bending or injuring the spikes, so that the latter may be again used.

A represents a base-plate, having two uprights, B B, attached, the upper ends of which are connected by a semicircular bar, C.

D represents what I term a "sliding stock," the same being fitted on the uprights B B, so that it may move freely up and down thereon. This stock is provided with two inclined sides, *a a*, (shown clearly in Fig. 1 by dotted lines,) and to the rear side of said stock there is secured an eccentric, E, which is provided with

a handle or lever, F. The stock is raised and lowered by operating this eccentric.

G G represent two curved jaws or nippers, which are pivoted at their upper ends to an eye, *b*, fitted loosely on a vertical guide-rod, H, attached to the center of stock D and passing up through the bar C. The lower ends of these jaws or nippers are prevented from coming in contact by pins *c c*, attached to the stock D. (See Fig. 1.)

The device is used as follows: The implement is placed upon the tie, with the lever F in a horizontal position at the left-hand side. The lever is then turned over to the right, and the jaws or nippers descend and open automatically, passing over the spike. The lever F is then turned to the left, which raises the stock D, the inclined sides *a* pressing the jaws in contact with the spike, the stock then coming in contact with eye *b*, raising the jaws or nippers and drawing the spike, the operation being repeated until the spike is fully drawn.

I claim as new and desire to secure by Letters Patent—

The sliding stock D, operated by the eccentric E and lever F, or their equivalents, in connection with the jaws or nippers G G, pivoted to the eye *b* on the guide-rod H of the stock, all arranged to operate in the manner substantially as and for the purpose set forth.

NATHAN ADAMS.

Witnesses:

A. CLABAUGH,
J. D. HICKS.