

J. T. WESTWOOD.  
Cut Nail-Machine.

No. 159,783

Patented Feb. 16, 1875.

Fig. 1.

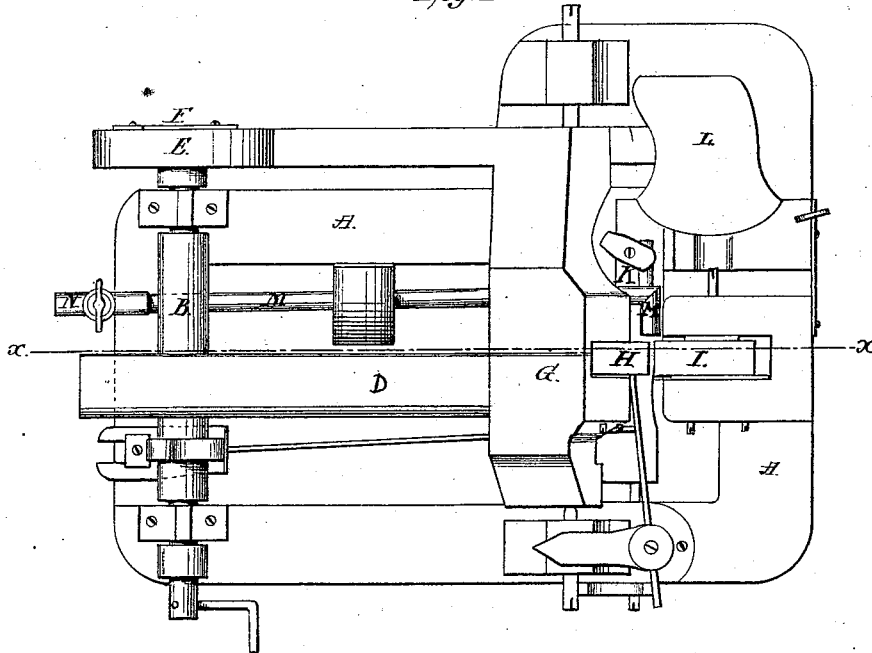
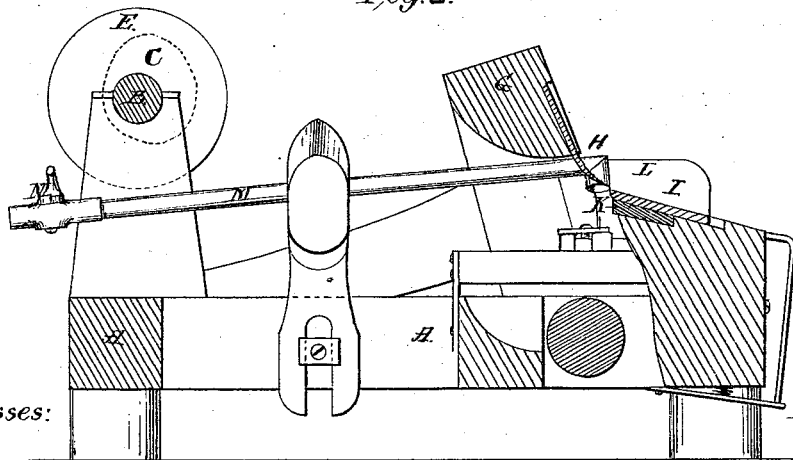


Fig. 2.



Witnesses:

*J. M. Mahan*  
*T. C. Smith*

Inventor

*John T. Westwood*  
By *Daniel Breed Atty*

# UNITED STATES PATENT OFFICE.

JOHN T. WESTWOOD, OF WHEELING, WEST VIRGINIA, ASSIGNOR TO HIMSELF AND CALEB D. DEVINNEY.

## IMPROVEMENT IN CUT-NAIL MACHINES.

Specification forming part of Letters Patent No. 159,782, dated February 16, 1875; application filed November 19, 1874.

*To all whom it may concern:*

Be it known that I, JOHN T. WESTWOOD, of Wheeling, Ohio county, in the State of West Virginia, have invented an Improvement in Nail-Machines; and I hereby declare the following to be full and exact description thereof, reference being had to the accompanying drawings, forming part of this specification.

My invention consists of a blast-tube, in combination with a nail-machine, for the purpose of cooling the cutters and dies and blowing away the scales, which are liable to dull the edges of the cutters more than the mere cutting of the iron alone.

In the accompanying drawings, Figure 1 is a top view of a nail-machine with my improvement. Fig. 2 is a vertical section of the same through line *x x*, Fig. 1.

The frame of the machine may be of the ordinary construction, as shown at A in the drawings. The power-shaft B carries a cam, C, for working the lever D and the grasping-die K, which, with its fellow, holds the nail or spike while being headed. The power-shaft also carries a boss-head, E, which is provided with a crank-pin for attaching the pitman F, and thus operating the lever G and cutter H. The blast-tube M directs a current of air upon the cutters H and L, and also upon the grasping-dies K and header L, thus cooling the cutters and dies, and also blowing away the scales, which would otherwise dull the cutter more than the cutting of the iron, and thus require much labor and expense in grinding. The

blast-tube is provided with a stop-cock, N, to regulate or cut off the blast at pleasure. The blast may be supplied by fan or other means.

The operation is as follows: A plate of hot iron is fed into the machine above the cutter I, when the movable cutter H is carried down by means of the lever D and cam C, as above explained, and thus cuts a blank for a nail or spike. This blank is carried down and grasped by the dies K, and thus held while the header L upsets the end of the blank to form the head, and thus completes the nail or spike, which then falls from the machine. During the whole time the blast of air may flow upon the cutters and dies, which are part of the time free from the hot plate, and thus the machine may be kept from being excessively heated, while the edges of the cutters are thus preserved from great wear, both by being cooled and by the blowing away the scales which fall from the hot iron while being worked.

Having described my invention, I claim—

The combination, with a machine for cutting nails from a heated plate and heading the same, the blast-tube M, used to direct the blast of cold air upon the dies, in order to prevent the same from becoming heated and to remove the scales, substantially as set forth.

JOHN T. WESTWOOD.

Witnesses:

DANIEL BREED,  
THOMAS C. CONNOLLY.