

WILLIAM H. RIDLEY.

Improvement in Toggle-Pins for Nail-Machines.

No. 114,857.

Patented May 16, 1871.

Fig. 1

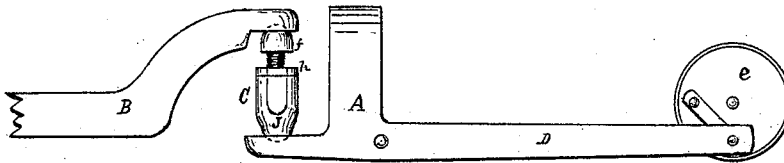
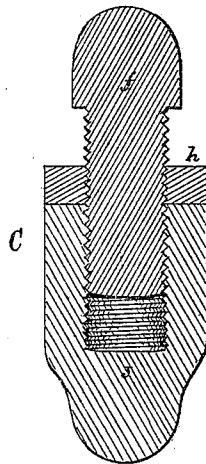


Fig. 2



Witnesses

A. L. Johnston
L. C. Thomas

Inventor

William H. Ridley, By
James L. Johnston Attorney

United States Patent Office.

WILLIAM H. RIDLEY, OF PITTSBURG, PENNSYLVANIA.

Letters Patent No. 114,857, dated May 16, 1871.

IMPROVEMENT IN TOGGLE-PINS FOR NAIL-MACHINES.

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, WILLIAM H. RIDLEY, of Pittsburg, in the county of Allegheny and State of Pennsylvania, have invented a new and useful Improvement in "Toggle-Pin" for Nail-Machines; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing and to the letters of reference marked thereon.

The nature of my invention consists in a toggle-pin constructed in three parts, so arranged with relation to each other that it can be adjusted to the wear of the parts of a nail-cutting machine used for cutting and heading the nail.

To enable others skilled in the art to make and use my invention, I will proceed to describe its construction and operation.

In the accompanying drawing, which forms part of my specification—

Figure 1 represents the position of the toggle-pin with relation to the cutting and heading parts of a nail-cutting machine.

Figure 2 is a vertical section of the toggle-pin.

The toggle-pin is used for transmitting motion from the cutting-head to the heading-jaw or die of a nail-cutting machine, and when it becomes too short by wear (which is often the case) it has to be removed from the machine, and, by a forging and fitting process, adjusted to the parts of the machine to which it belongs; this forging and fitting process is a source of

great trouble, expense, and loss of time. To obviate this trouble—forging and fitting of the toggle-pin—I make it in three parts, and so arranged that it can be lengthened or made short, as the case may require, without removing the pin from the machine, and without loss of time, and requiring comparatively no labor.

In the accompanying drawing—

A represents the cutting-head of a nail-cutting machine; the lever D of which is attached to a wheel, *e*, in the ordinary manner.

B represents the lever of the heading-jaw or die.

C represents the toggle-pin which is used for transmitting motion from the cutting-head to the heading-jaw.

This toggle-pin I make in three parts, viz., the male part *f*, female part *j*, and clamping-nut *h*, the construction of which is clearly shown in fig. 2, and the operation of which will readily be understood by the skillful mechanic, who will also understand the mode or manner of using and adapting it to its office in a nail-cutting machine.

Having thus described the nature, use, and advantage of my improvement,

What I claim as of my invention is—

A toggle-pin, constructed substantially as hereinbefore described, and for the purpose set forth.

W. H. RIDLEY.

Witnesses:

A. C. JOHNSTON,
JAMES J. JOHNSTON.