

W. H. FIELD.
NAIL-PLATE FEEDER.

No. 171,005.

Patented Dec. 14, 1875.

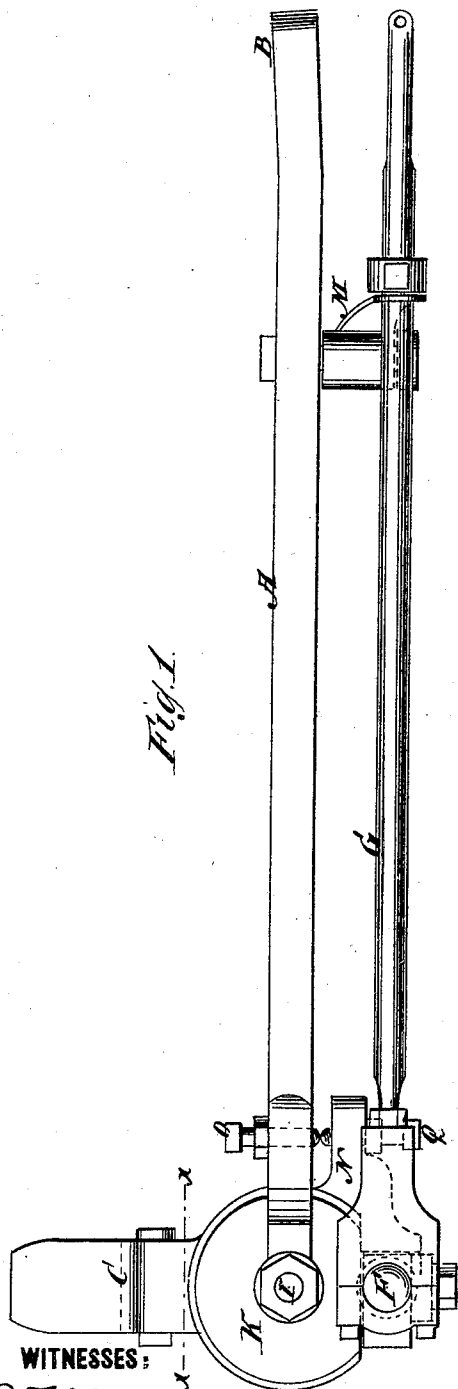


Fig. 1.

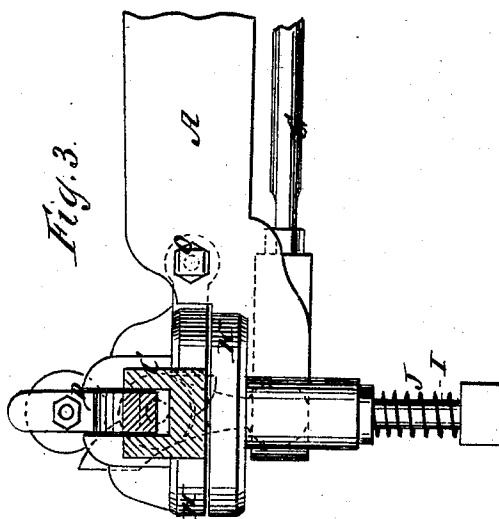


Fig. 3.

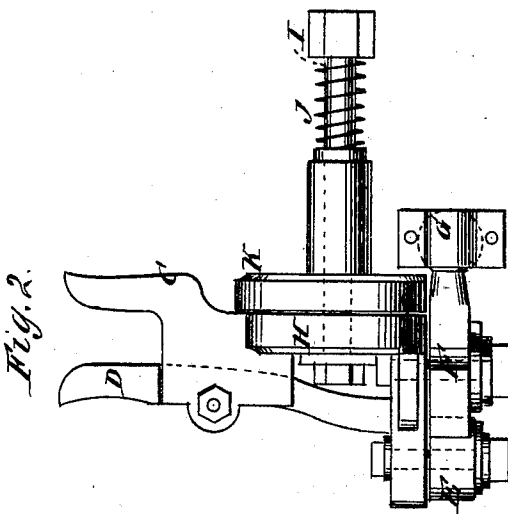


Fig. 2.

WITNESSES:

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WILLIAM H. FIELD, OF TAUNTON, MASSACHUSETTS.

IMPROVEMENT IN NAIL-PLATE FEEDERS.

Specification forming part of Letters Patent No. **171,005**, dated December 14, 1875; application filed November 27, 1875.

To all whom it may concern:

Be it known that I, WILLIAM H. FIELD, of Taunton, in the county of Bristol and State of Massachusetts, have invented a new and Improved Nail-Plate Feeder, of which the following is a specification:

This invention consists of feeding-jaws in which the griper-rod rests, and which are made to close on the rod, and then move forward the breadth of one nail by a rod moved forward by the machine and backward by a spring, and in its backward movement allowing the jaws to open, and moving them backward along the rod for a new hold to feed again.

Figure 1 is a side elevation of my improved nail-plate feeder. Fig. 2 is a front-end elevation, and Fig. 3 is a section on line *x x* of Fig. 1.

Similar letters of reference indicate corresponding parts.

A is a supporting-bar bolted to the machine at B, for supporting the feeding-jaws C D, and the lever F and rod G for working them. The arm of jaw C is provided with a broad bearing-disk, H, in the center of which it is pivoted by the bolt I, having a tension-spring, J, to the stationary disk K, attached to bar A. On this pivot the two jaws swing forward and backward to feed the nail-plate. The jaw D has a friction-roller, E, at the lower end, against which the cam-shaped end of lever F is pushed by the rod G when moved outward by the machine, which causes the jaws to gripe the griper-rod and carry it forward to feed the plate, the forward movement of the jaws

being effected by the rod G still pushing back after cam-lever F closes the jaws. Rod G, which is moved in the reverse direction by the spring M, first releases the gripe of the jaws on the feeding-rod, by withdrawing lever F from the friction-roller, and then swings the jaws back by pulling the lever against the shoulder of a bracket, N, of feeding-jaw C.

The length of the feed is regulated to the required size of nails by the adjusting-screws O and P in the bar A, and bracket N, which may be set to allow the jaws to swing back more or less, the rod G being free to stop, as required.

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

1. The combination of rod G and cam-lever F with jaws C and D, when said rod is arranged to be moved forward by the machine and backward by a spring, and jaw C is pivoted suitably for swinging forward and backward to feed the rod, substantially as specified.

2. The combination of bracket N and adjusting-screws O P with lever F and jaw C, substantially as specified.

3. The combination of supporting-bar A, actuating-rod G, cam-lever F, and the feeding-jaws, the latter being pivoted to the supporting-bar, substantially in the manner described.

WILLIAM H. FIELD.

Witnesses:

A. H. HALL,
JAMES H. DEAN.