FELIX WESTWOOD.

Improvement in Machines for Feeding Plates to Shearing-Machines.

No. 126,169. Patented April 30, 1872.

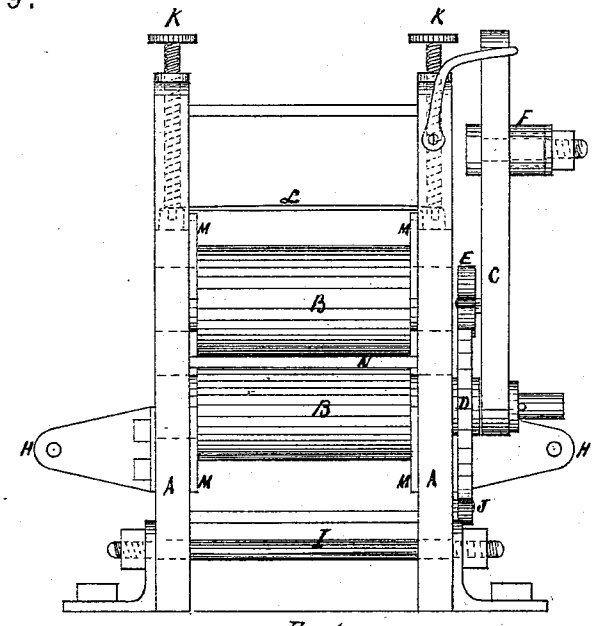


Fig. 1.

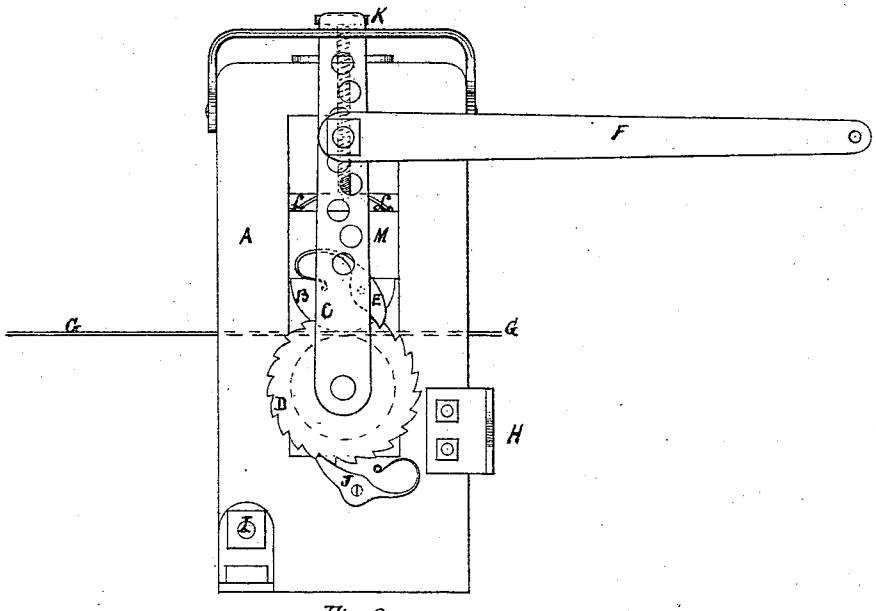


Fig. 2.

Witnesses.

George H. Westwood
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A.M. PHOTO-LITHOGRAPHIC CO. N.Y. (OSBORNE'S PROCESS.)

UNITED STATES PATENT OFFICE.

FELIX WESTWOOD, OF SOUTH WHEELING, WEST VIRGINIA, ASSIGNOR TO HIMSELF AND GEORGE H. WESTWOOD, OF SAME PLACE.

IMPROVEMENT IN MACHINES FOR FEEDING PLATES TO SHEARING-MACHINES.

Specification forming part of Letters Patent No. 126,169, dated April 30, 1872.

SPECIFICATION.

Be it known that I, FELIX WESTWOOD, of South Wheeling, in the county of Ohio and State of West Virginia, have invented a new and useful machine for feeding nail-plate shears, with the iron plates to be sheared into nail-plates, in such a way as to be self-acting; and I do hereby declare the following to be a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawing making a part of this specification, in which—

Figure 1 is a front elevation, and Fig. 2 a side elevation.

A represents the frame of the machine; B B, the rolls, actuated by an arm, C, through a ratchet-wheel, D, and pawl E. The arm C is connected to the shears by means of a rod, F, and crank-pin or other suitable attachment. The arm C is so arranged that a longer or shorter stroke is given to it by moving the rod F nearer to or further from the center upon which the arm C is pivoted, thereby varying the amount of feed given to the iron sheet or plate G, passing through the rolls B B to the shears. The machine is secured to the shears at H, and is so arranged that by detaching the bolts the whole machine may be turned over on the shaft I to give access to the shears. J is a spring attachment to the ratchet-wheel D to prevent back motion. K K are screws for varying the distance between the rolls. L is a spring, bearing equally on the blocks M M, in which the top roll works. N is a table or rest for the iron before passing through the rolls. The rolls have journals, which work in the blocks M M sliding in the frame A A.

The iron G is put between the rolls, and is fed by the machine, at regular intervals and regular distances, by means of the ratchet-wheel D, pawl E, arm C, and rod F, which is connected to the shearing-machine, and by which means perfect uniformity in size is gained in shearing the nail plates or sheets, and a saving in iron and labor is effected.

I claim—

The combination, with nail-plate shears, in the manner set forth, of the feeding mechanism herein described, supported on a frame that is separate and distinct from the frame of the nail-plate shears, and which is connected to a rack or table by a hinge-joint, so that it may be turned back and thus leave space between itself and the nail-plate shears for the workman to pass between the two, for the purposes set forth.

FELIX WESTWOOD.

Witnesses:

GEORGE H. WESTWOOD,

J. S. FAIRFAX.