

PATENTED MAR 28 1871

Sheet 1

O. C. Dewey, J. Dudley & F. Lindemann.
Nail-Plate Rolling.

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Fig. 1

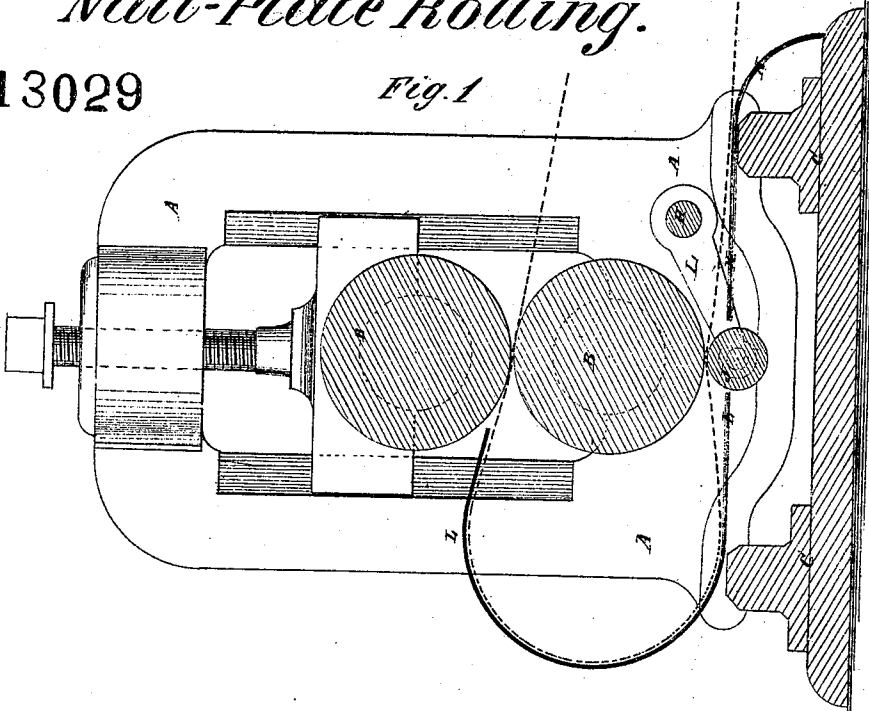
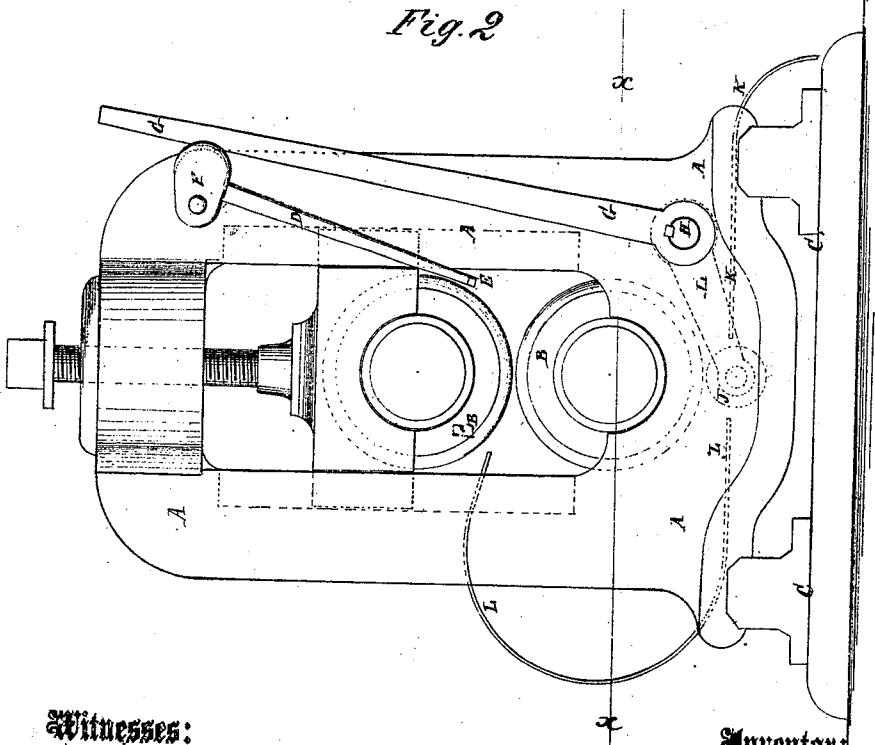


Fig. 2



Witnesses:

A. M. H. M. M. M.
S. S. M. M. M.

Inventor:

O. C. Dewey
J. Dudley
F. Lindemann

PER

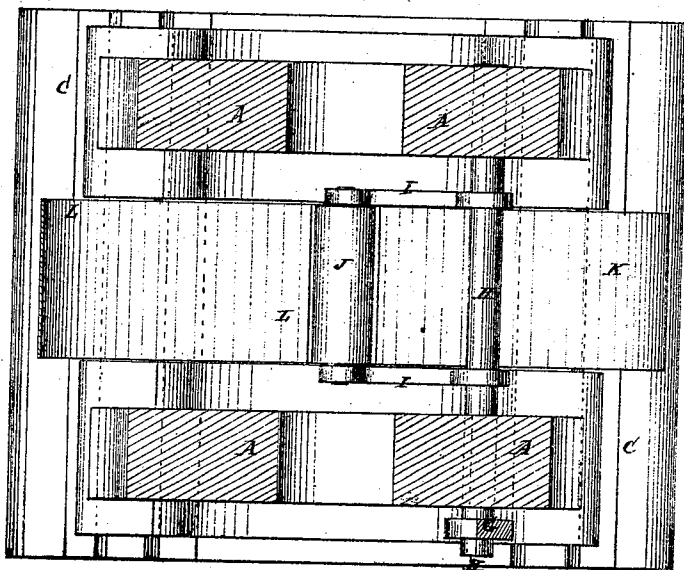
M. M. M.
Attorneys.

3,029

March 28-1871 2 sheets *Sheet II*

O. C. Dewey, J. Dudley & F. Lindemann.
Nail-Plate Rolling.

Fig. 3



Witnesses:

A. W. Almquist
L. S. Mabee

Inventor:

O. C. Dewey
J. Dudley
F. Lindemann

PER

Mumford

Attorneys.

United States Patent Office.

ORVILLE C. DEWEY, JOSEPH DUDLEY, AND FRIEDRICH LINDEMANN,
OF WHEELING, WEST VIRGINIA.

Letters Patent No. 113,029, dated March 28, 1871.

IMPROVEMENT IN NAIL-PLATE ROLLING.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that we, ORVILLE C. DEWEY, JOSEPH DUDLEY, and FRIEDRICH LINDEMANN, of Wheeling, in the county of Ohio and State of West Virginia, have invented a new and useful Improvement in Nail-Plate Rolling; and we do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawing forming part of this specification.

Figure 1, sheet 1, is a vertical cross-section of a pair of finishing-rolls, to which my improvement has been attached.

Figure 2, sheet 1, is an end view of the same.

Figure 3, sheet 2, is a horizontal section of the same taken through the line $x x$, fig. 2.

Similar letters of reference indicate corresponding parts.

Our invention has for its object to furnish an improved attachment for the finishing-rolls for finishing nail-plates, which shall be so constructed as to remove the necessity of turning the end of the plate between the rolls by hand, and which shall be simple in construction, and easily applied and operated; and

It consists in the construction and combination of the various parts of the attachments with the rolls and frames or housings of a pair of ordinary finishing-rolls, as hereinafter more fully described.

A represent the housings, or upright frames, in which the journals of the rolls B work, and which stand upon and are secured to the bed-plate or base frame C.

D is a lever, pivoted at its upper end to the housings or frame A, and having a handle or arm, E, formed upon or attached to its lower end.

The lever D may be operated by hand, or it may be made long and extend downward, so that it may be operated by the attendant with his foot.

Upon the upper end of lever D is formed, or to it is rigidly attached, a cam, F, which rests against the upper part of the lever G, so that the lever G may be operated by operating the lever D.

The lower end of the lever G is keyed or otherwise rigidly attached to the shaft H.

To the shaft H, between the housings or frame A, are rigidly attached the outer ends of the two arms or levers I, to the other or inner ends of which are pivoted the journals of the friction-roller J, which is revolved by contact with the lower roll B or with the nail-plate passing between it and the said roll B.

The roller J is designed to hold the nail-plate close up against the lower roll B, so that it may be drawn in by the revolution of the said roll B.

K is the guide-plate or apron, upon which the end of the nail-plate is placed, and by which it is guided into proper position beneath the lower roll B to be operated upon by the roller J.

L is a guide-plate, curved into such a form, as shown in figs. 1 and 2, as to bend the nail-plate as it passes out from beneath the lower roll B into such a position that it may pass in automatically between the two rolls B to be rolled.

The roller J is placed between the ends of the guide-plates K and L, and is so arranged that when lowered its upper side may be about upon a level with the upper surfaces of the ends of the said guide-plates K L, as shown in dotted lines in fig. 1; and when raised to grasp the nail-plate, its upper side may rise above the said guide-plates, as shown in full lines in fig. 1, and in dotted lines in fig. 2.

In using this attachment, the nail-plate is pushed in by the workman in the ordinary manner.

At the proper time the attendant, who stands at the ends or front of the rolls B, moves the lever D toward the said rolls B, causing the cam F to operate the lever G, which operates the shaft H and arms or levers I, and raises the roller J, pressing the nail-plate against the lower side of the lower roll B, so that the nail-plate will be drawn in by the said roll B.

Having thus described our invention,

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

1. The nail-plate rolls A B, combined with a movable roll, J, for receiving, as described, the plate at its lowest point of depression, then rising with it and clamping it against the bottom of roll B, as and for the purpose specified.

2. The mechanism for operating the roll J, consisting of the cam-lever D F, lever G, shaft H, and arms I, when arranged with respect to the rolls, as and for the purpose specified.

3. The guides K L, combined with roll J, provided with mechanism to cause it to rise and clamp the blank to the roll B, as and for the purpose specified.

ORVILLE C. DEWEY.

JOSEPH DUDLEY.

FRIEDRICH LINDEMANN.

Witnesses:

B. KAMMER,

HARRY E. ULRICH.