A. L. HOLLEY.

Feeding Apparatus for Rolling-Mills.

No. 215,360. Patented May 13, 1879.

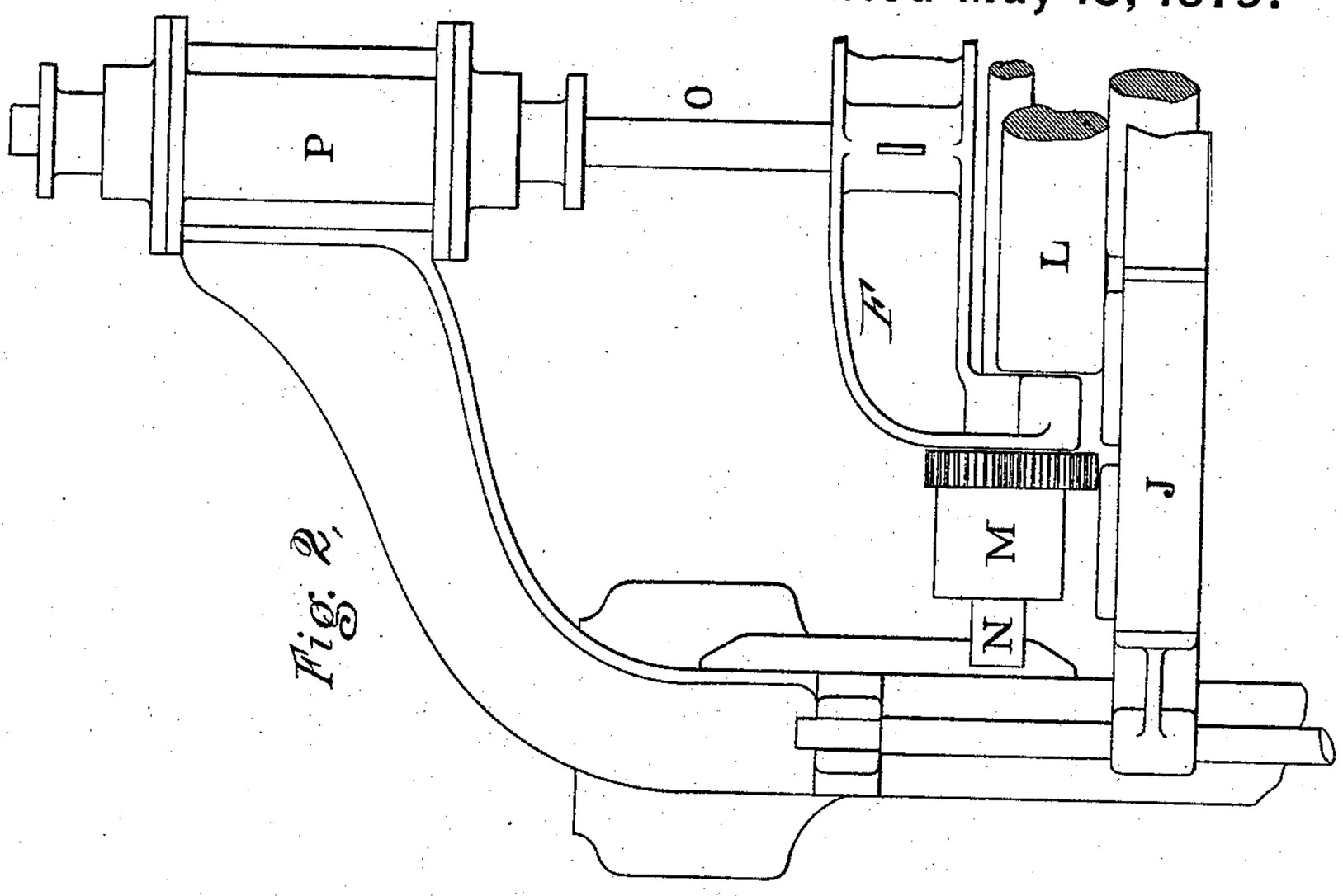

Fig. 2.

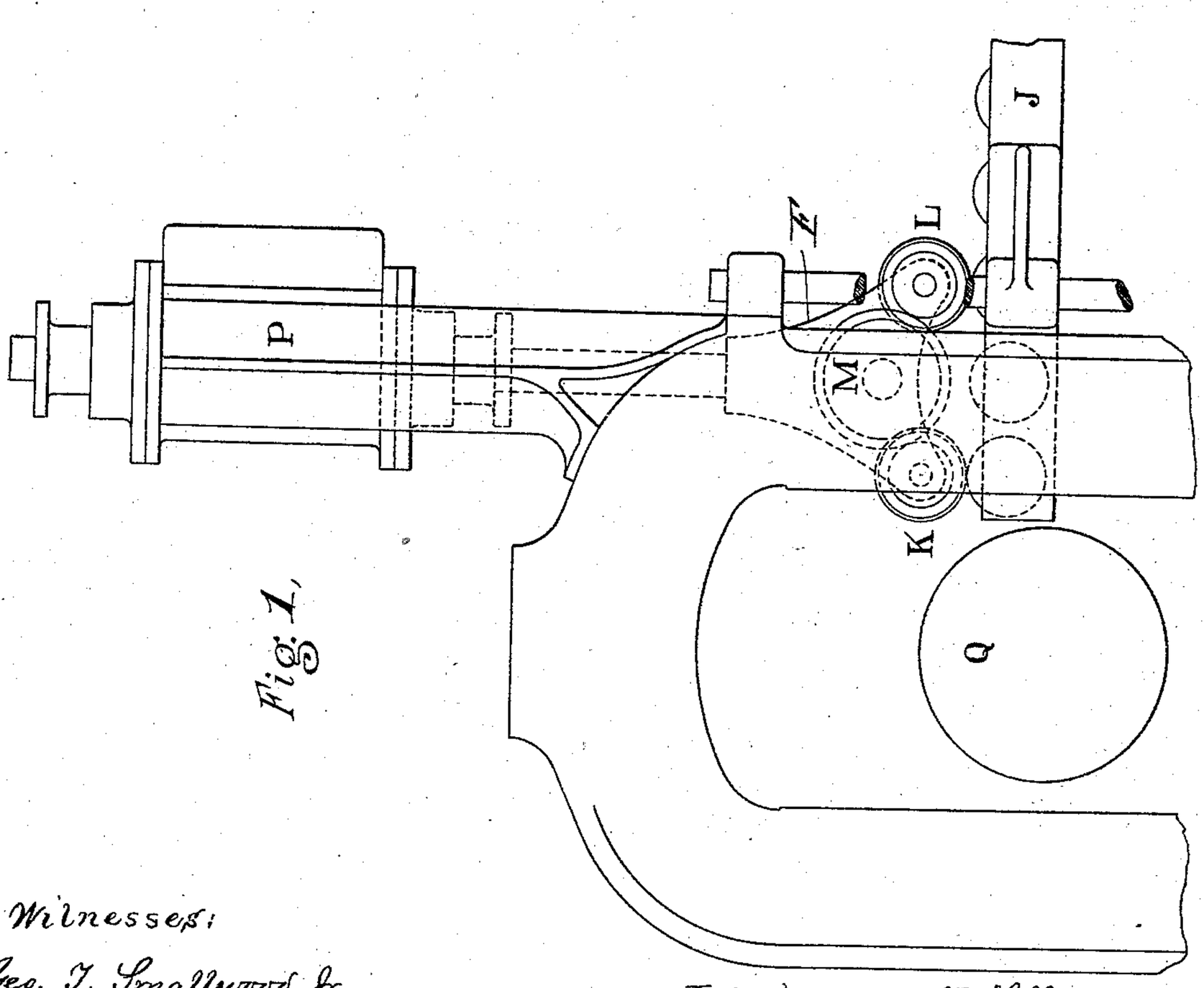

Fig. 1.

Witnesses:

Geo. T. Smallwood, Jr.

A. H. Galt.

Inventor: A. L. Holley.

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UNITED STATES PATENT OFFICE.

ALEXANDER L. HOLLEY, OF NEW YORK, N. Y.

IMPROVEMENT IN FEEDING APPARATUS FOR ROLLING-MILLS.

Specification forming part of Letters Patent No. **215,360,** dated May 13, 1879; application filed December 11, 1878.

To all whom it may concern:

Be it known that I, ALEXANDER L. HOLLEY, of New York, in the county of New York and State of New York, have invented certain Improvements in Feeding Apparatus for Rolling-Mills, of which the following is a specification.

My improvements consist, first, in the combination, with a feed-table, of a vertically-adjustable frame carrying two feeding-rollers, connected by driving-gear, which imparts simultaneous movement to said rollers, to adapt the apparatus for feeding either long or short pieces, as hereinafter described.

My invention further consists in the combination, with a lifting-table, and a roller-frame, and driven feed-rollers, of a steam-cylinder, for raising, lowering, or pressing down said feed-roller frame, as hereinafter described.

In order that my invention may be fully understood, I will proceed to describe it with reference to the accompanying drawings, in which—

Figure 1 is a side elevation, and Fig. 2 a partial front view, of my improvements adapted for raising the piece over the top roll of an ordinary two-high plate-train.

Q represents the said top roll. Over the lifting-table J, I place two feed-rollers, K and L, which are mounted in a frame, F, and may be driven in any suitable manner. I show them driven by means of an intermediate gear and belt, M.

Two feed-rollers are desirable in a plate-train for the following reasons: A very short slab on the extreme inner end of the table would require the feed-roller K to be placed over the extreme end of the table, while a slab or plate might be thrown so far out upon the table that the feed-roller K might not hit it, and the roller L would be necessary to feed it.

The feed-rollers may be guided to move up and down parallel to the table by means of guides N.

In case it should be desirable not to begin feeding the piece until after the table is up, or in case it should be preferred to press the feed-roller down upon the piece by power rather than its weight, I have provided a piston, O, which may be operated in the cylinder P by water, air, or steam, and serves to raise and lower the feed-rollers and to apply pressure thereto at the will of the operator when the lifting-table is at any height.

It is obvious that the starting and stopping of the feeding may be done by operating the feed-roller by means of a clutch or equivalent.

I am aware that a single driven feed-roller vertically adjustable has before been used. This, therefore, I do not broadly claim.

Having thus described my invention, the following is what I claim as new therein and desire to secure by Letters Patent:

1. The combination, with the vertically-adjustable lifting-table J, of the frame F, the connected feeding-rollers K L, mounted in said frame, and mechanism for imparting simultaneous motion to the said feeding-rollers, to adapt the apparatus to feed either long or short pieces, in the manner described.

2. The combination of a vertically-adjustable lifting-table, J, a vertically-adjustable frame, F, carrying feeding-rollers K L, and a steam-piston, O, for raising, lowering, and applying pressure to the said feeding-roller frame, as described.

A. L. HOLLEY.

Witnesses:
GRAM CURTIS,
L. G. LAUREAU.