

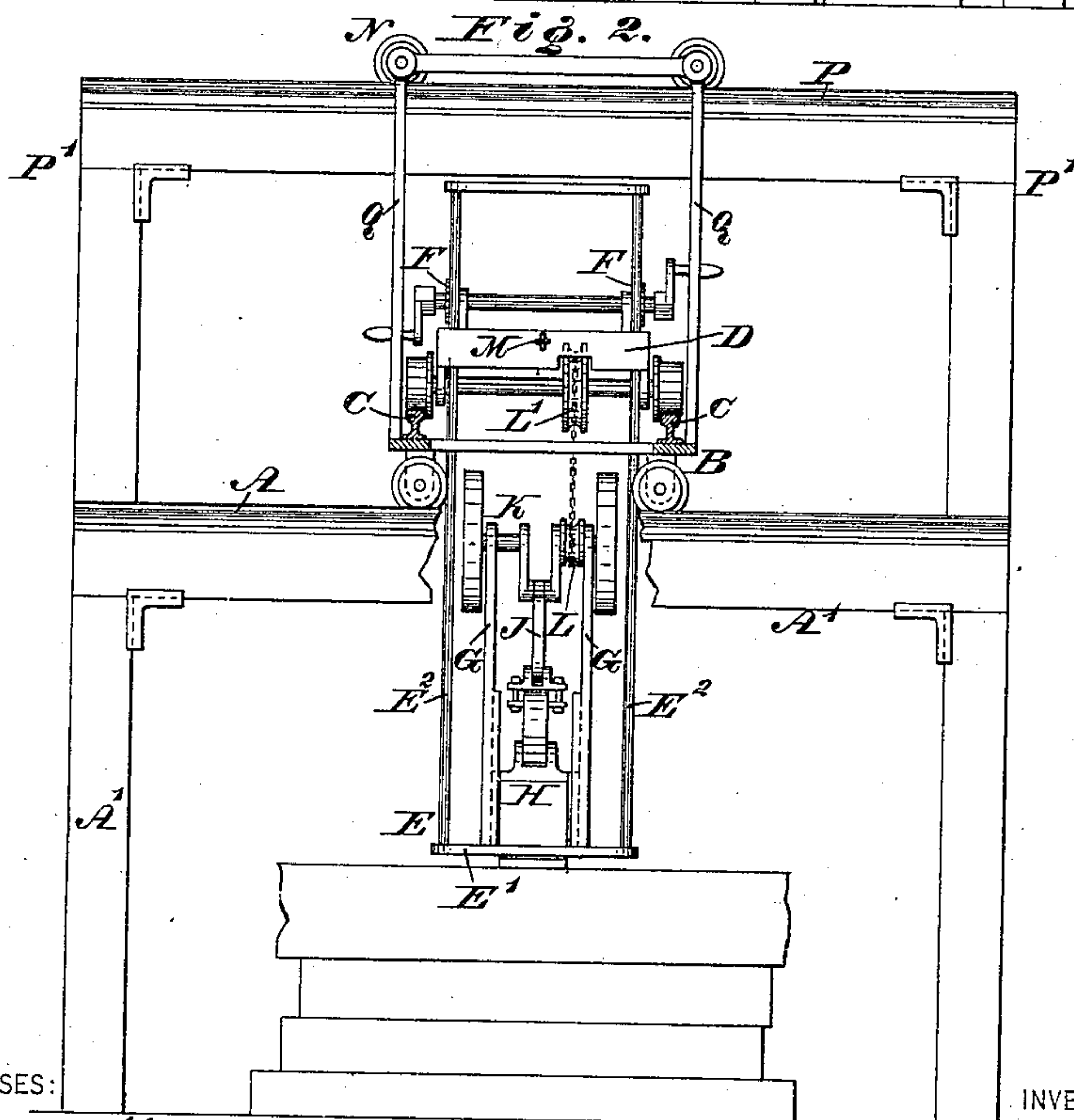
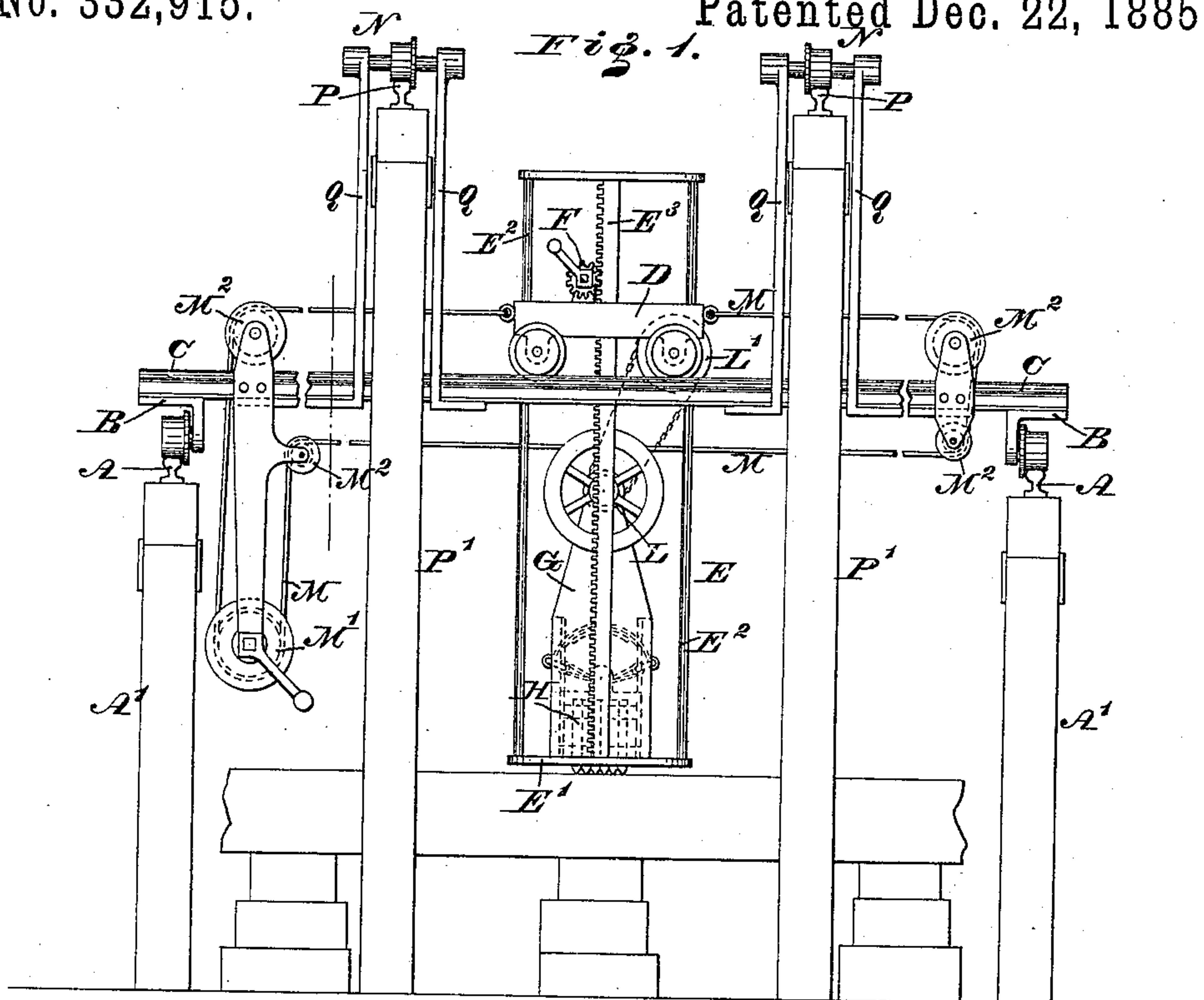
(No Model.)

2 Sheets—Sheet 1.

F. MANNING.
STONE DRESSING MACHINE.

No. 332,915.

Patented Dec. 22, 1885.



WITNESSES:

L. Douville
W. F. Kircher

INVENTOR:

Frank Manning
BY *Paul Diederichsen*
ATTORNEY.

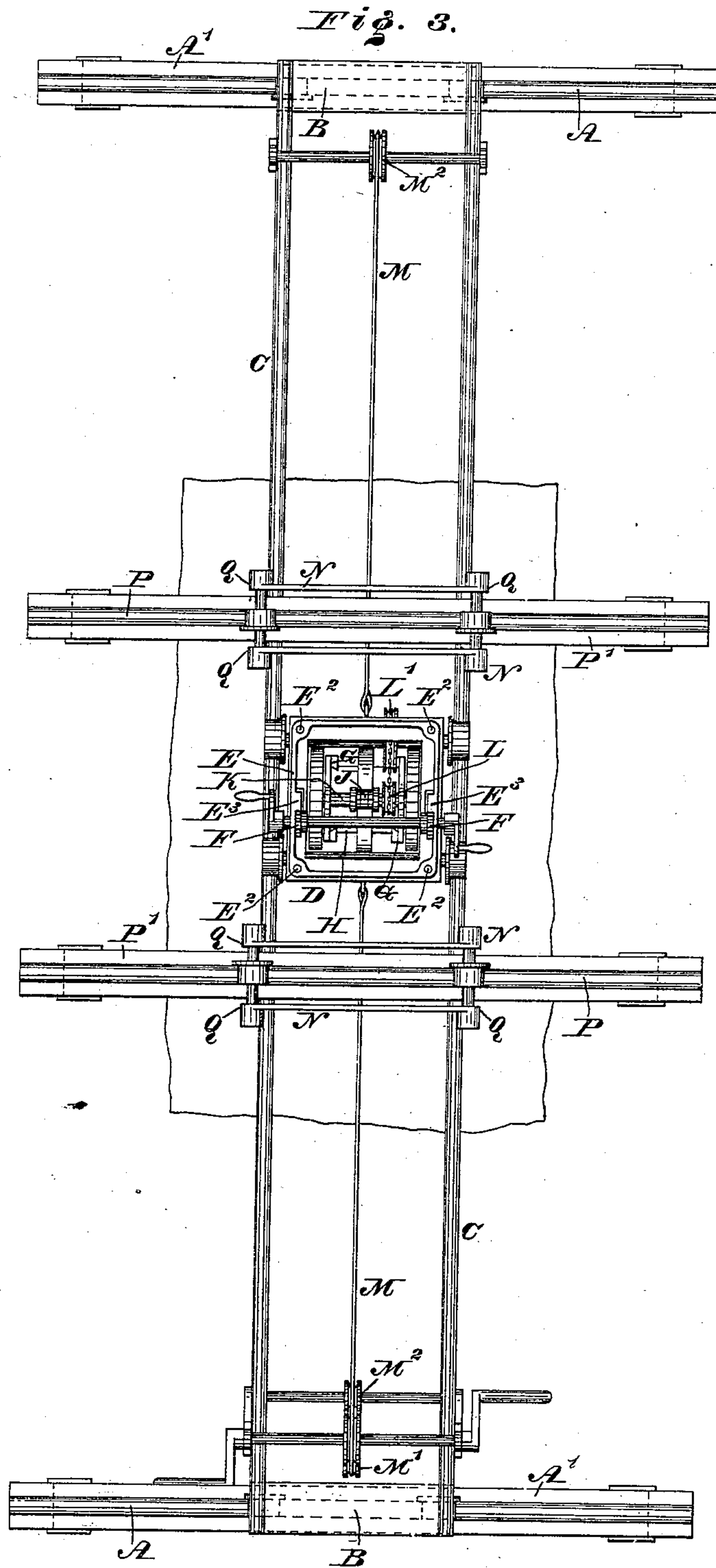
(No Model.)

2 Sheets—Sheet 2.

F. MANNING.
STONE DRESSING MACHINE.

No. 332,915.

Patented Dec. 22, 1885.



WITNESSES:

L. Douville
W. F. Kircher

INVENTOR:

Frank Manning
John A. Diederichsen

BY

ATTORNEY.

UNITED STATES PATENT OFFICE.

FRANK MANNING, OF ARDMORE, PENNSYLVANIA.

STONE-DRESSING MACHINE.

SPECIFICATION forming part of Letters Patent No. 332,915, dated December 22, 1885.

Application filed September 3, 1885. Serial No. 176,050. (No model.)

To all whom it may concern:

Be it known that I, FRANK MANNING, a citizen of the United States, residing at Ardmore, county of Montgomery, State of Pennsylvania, have invented a new and useful Improvement in Stone-Hammers, which improvement is fully set forth in the following specification and accompanying drawings, in which—

Figure 1 represents a side elevation of a stone-hammer embodying my invention. Fig. 2 represents a vertical section thereof. Fig. 3 represents a top view thereof.

Similar letters of reference indicate corresponding parts of the several figures.

My invention consists of a traveling hammer for dressing stone, held or suspended over its work, and which can be moved at the will of the operator to any part of the work, and may be operated by hand, steam, or other power.

It also consists of means for vertically adjusting the hammer, and of other details of construction, as will be hereinafter fully set forth.

Referring to the drawings, A represents elevated tracks supported on a frame, A', and on which are mounted trucks B, the latter being connected by supporting-tracks C, it being noticed that the tracks A C extend at a right angle to each other.

D represents a carriage, which is mounted on the tracks C, and from the same depends a frame, E, formed of an open base part, E', uprights E², and rack-bars, E³, said uprights and rack-bars passing freely through the body of said carriage, so that the frame and the hammer may be raised and lowered or vertically adjusted in relation to the stone, this being accomplished by means of pinions F, which are mounted on said body and engage with said bars.

Supported on the base of the frame E is a frame, G, in the sides of which is guided the head of a hammer, H, the upper end of said head having a connection, J, with a crank-shaft, K, the latter being mounted on the top of the frame G, and carrying a sprocket-wheel, L, which, by means of a sprocket-wheel, L', on one of the axles of the carriage D and a connecting-chain, is properly operated to impart rising and falling motions to the hammer,

said carriage by its motions rotating the wheel L', said motions being obtained by means of cords or chains M and a shaft, M', on and from which they are wound and unwound, said shaft M' and the pulleys M², for the cords or chains, being mounted on the trucks B.

In lieu of the cords and chains M and shaft M', for moving the carriage and operating the crank-shaft K, any other suitable motor may be employed.

In order to sustain the truck B, I employ trucks N, which are sustained on tracks P, the latter being supported on a frame, P', which rises from the ground or bed or foundation of the machine, said tracks P being parallel with the tracks A and located above the same. The trucks B and trucks N are connected by a frame, Q, thus strengthening the trucks B, and enabling them to sustain the load superimposed upon them.

It will be seen that the hammer may be vertically adjusted relative to the face, of the stone to be dressed and moved with the carriage D to different parts of said face, owing to the motions in right-angular direction which may be imparted to said carriage, and consequently to the hammer thereon.

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

1. The frame A', having the track A thereon, in combination with trucks B B working on said track, the track C C, having the ends thereof secured to said trucks B B, the carriage D, operating on said track C C, a hammer supported in a rising and falling frame connected to said carriage, and means, substantially as described, for imparting a reciprocating motion to said carriage and for operating said hammer, substantially as and for the purpose set forth.

2. In a machine for dressing stone, the frame A', having track A thereon, in combination with trucks B B, with tracks C C, connected to said trucks B B, the carriage D, with adjustable frame having rising and falling hammer, and the frame P' P', having tracks P P, frame Q, connected to said trucks N and B, and adapted to assist in supporting the said trucks B, substantially as described.

3. The carriage D, having the depending

- frame E, and means for raising and lowering the same, in combination with the frame G, secured to and within the said frame E and furnishing bearings for the crank-shaft K, the
5 hammer H, having connection J, pivotally secured to said crank-shaft, and means, substantially as described, for imparting a rising and falling motion to said hammer, substantially as described.
- 10 4. The carriage D, and means, substantially as described, whereby the same may be moved in both a longitudinal and transverse direction, in combination with frames E and G, attached to said carriage, hammer H, having connection J, pivotally secured to the crank- 15 shaft K, the latter having bearings in the frame G, sprocket-wheel L, mounted on the crank-shaft K, and sprocket-wheel L', mounted on one of the axles of the said carriage D, and a chain connecting said sprocket-wheels 20 L and L', substantially as and for the purpose set forth.

FRANK MANNING.

Witnesses:

H. P. McDOWELL,
A. P. McDOWELL.