

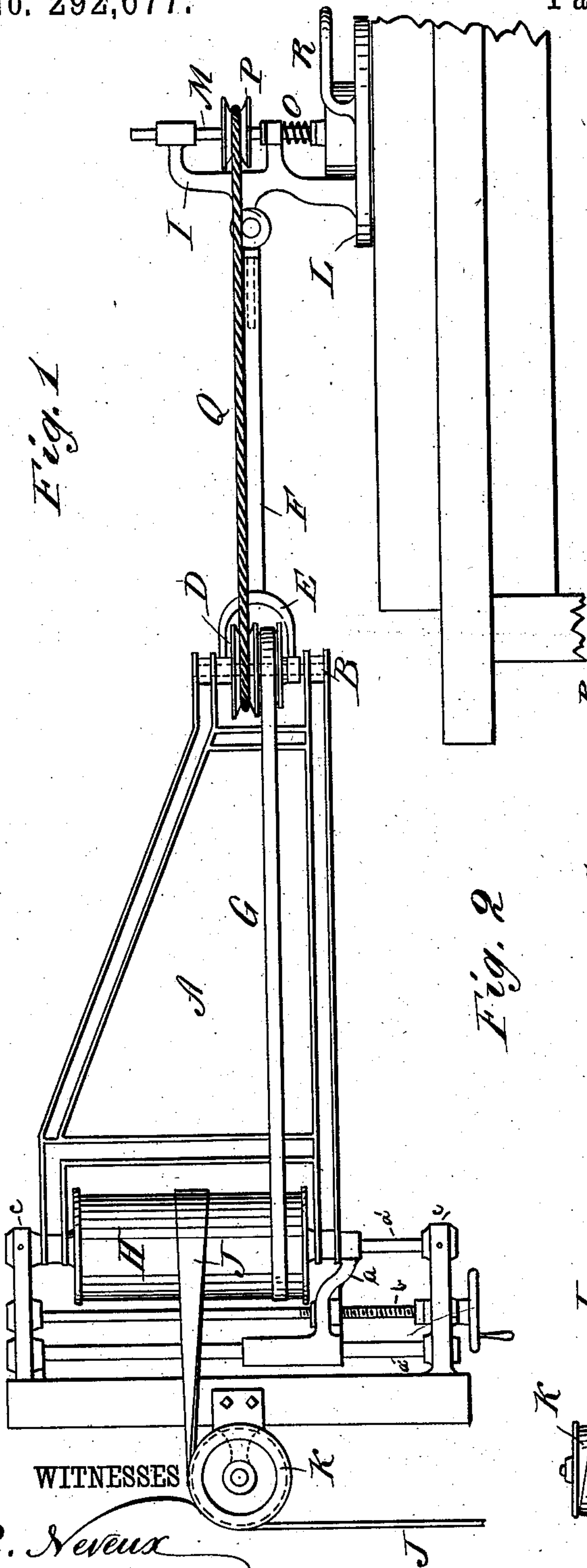
(No Model.)

J. PIERRON.  
POLISHING MACHINE.

No. 292,677.

Patented Jan. 29, 1884.

Fig. 1



WITNESSES

C. Neveu

C. Sudgwick

Fig. 2

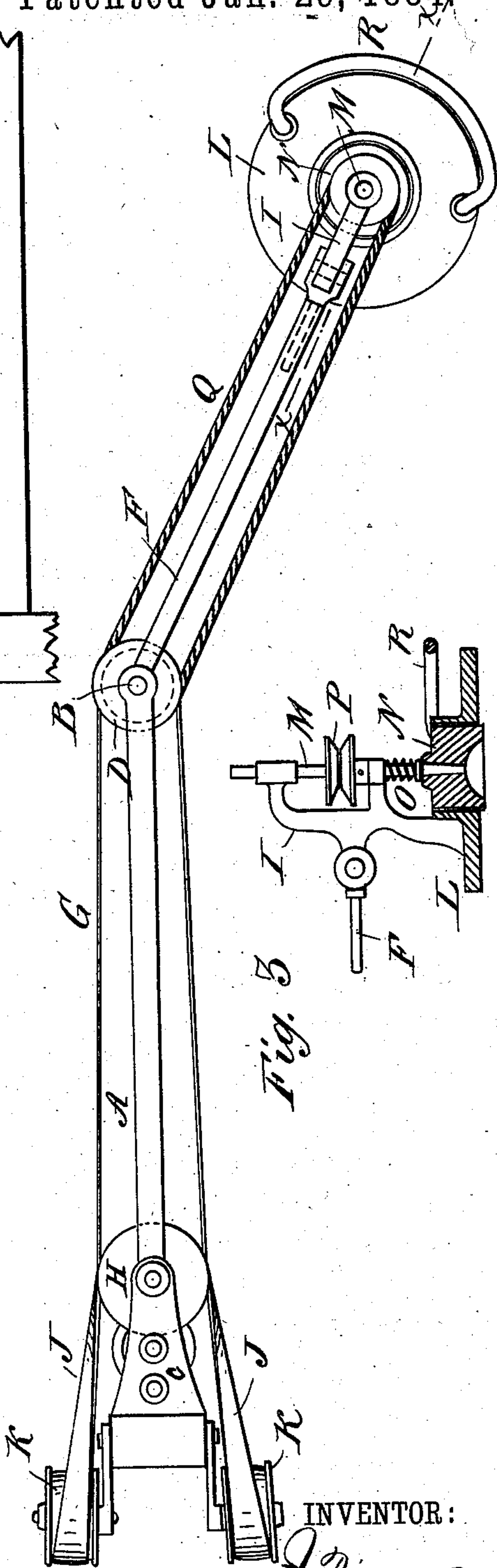
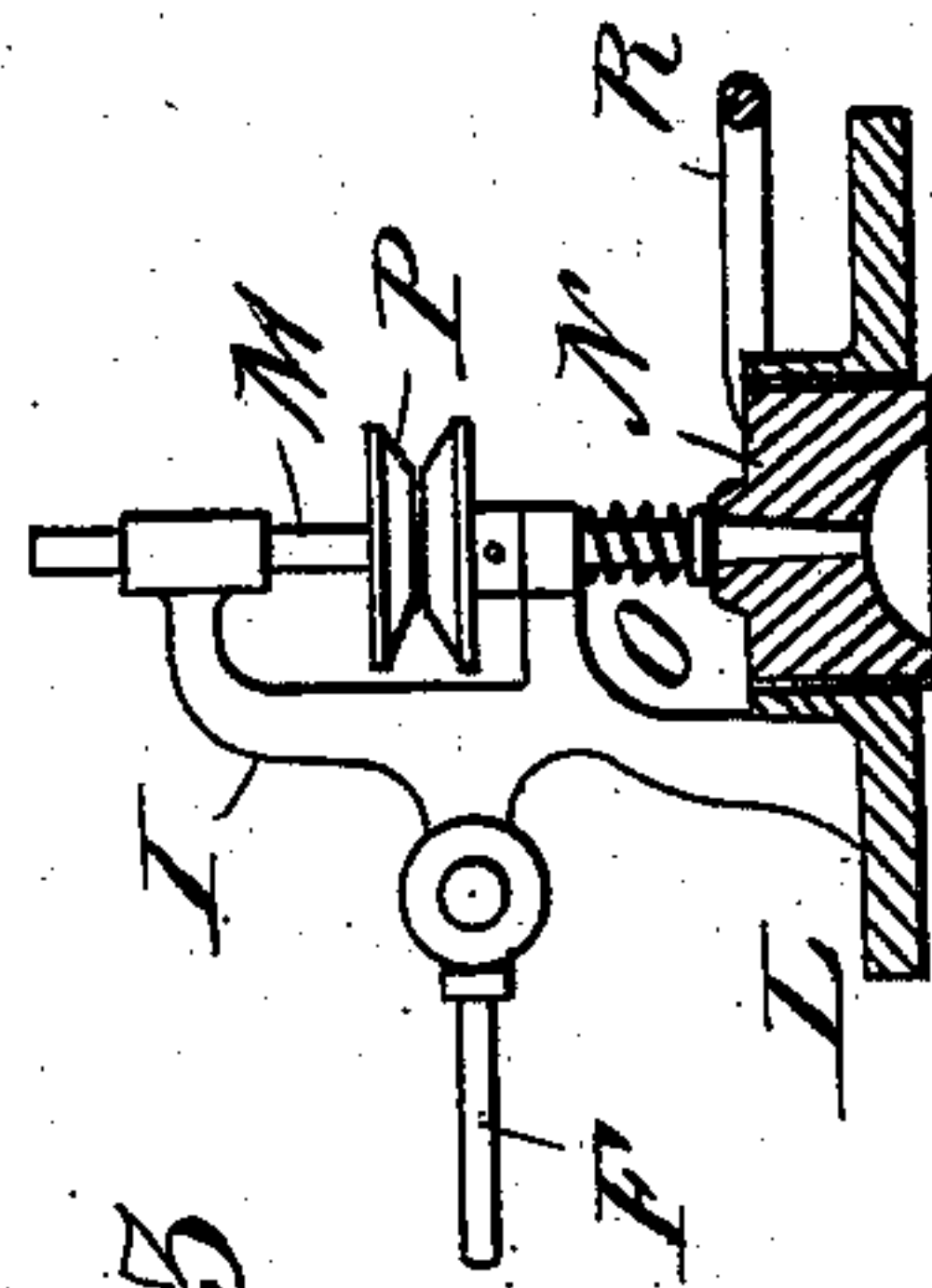


Fig. 3



INVENTOR:

BY

J. Pierron  
Munn & Co.  
ATTORNEYS.



# UNITED STATES PATENT OFFICE.

JEAN PIERRON, OF ELIZABETHPORT, NEW JERSEY.

## POLISHING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 292,677, dated January 29, 1884.

Application filed October 25, 1883. (No model.)

*To all whom it may concern:*

Be it known that I, JEAN PIERRON, of Elizabethport, in the county of Union and State of New Jersey, have invented a new and useful Improvement in Polishing-Machines, of which the following is a full, clear, and exact description.

The object of my invention is to provide a new and improved machine for polishing wood, stone, and other materials.

The invention consists in certain improvements in polishing-machines, as will be hereinafter described, and specifically set forth in the claims.

Reference is to be had to the accompanying drawings, forming part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1 is a side view of my improved polishing-machine; Fig. 2, a plan view of the same. Fig. 3 is a cross-sectional elevation of part of the same on the line *x x*, Fig. 2.

In the outer end of a laterally-swinging frame, A, an upright shaft, B, is journaled, on which are rigidly mounted two belt-pulleys, C and D, and on the said shaft B are also loosely mounted the shanks of a fork, E, formed on the end of a rod, F. A belt, G, passes over the pulley C, and over a drum or cylinder, H, journaled in the pivoted end of the frame A, over which cylinder a driving-belt, J, passes, which also passes over suitable guide-pulleys, K. This frame A is vertically adjustable by means of a sliding bracket, *a*, working on two guide-rods, *a' a'*, mounted on attaching-arms *c c*, one of which rods *a'* passes through the end of said frame A, and through the drum, and said bracket *a* is caused to reciprocate by means of a screw-threaded rod, *b*, working through a screw-threaded boss on the central part of the bracket. The adjusting-rod is provided with an operating hand-wheel.

To the free end of the rod F a standard, I, formed on a plate, L, is pivoted, which standard is provided with arms, in which a vertical shaft, M, is journaled, on the lower end of which shaft the abrading block or disk N is held, which is adapted to revolve in a central aperture of the plate L. The shaft M and the disk N are pressed downward by a spiral spring, O, surrounding the shaft M between the lower arm of the standard I and the abrading-disk N. On the shaft M a grooved belt-pulley, P, is rigidly mounted,

over which and the pulley D a driving belt or cord, Q, is passed. The plate L is provided with a handle, R, for guiding it. The abrading-disk N, which is made of any suitable material, is preferably recessed in the bottom. The plate L is placed on the material to be polished—for instance, a slab of stone—and is guided by means of the handle R. The disk N, revolved by the belts J, G, and Q, acts on the surface of the material and polishes it, the disk N being pressed on the material by the spring O. When the disk N is worn out, it can easily be replaced by another. The plate L can easily be moved laterally and vertically, as may be necessary in passing the cutting-disk over the face of the work.

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

1. In a polishing-machine, the combination, with the plate L, having a standard, I, and a central aperture, of the shaft M, journaled in arms of the standard I, the abrading-disk N, mounted on the lower end of the shaft M, and adapted to revolve in the aperture of the plate L, the spring O, and of means for revolving the shaft M, substantially as herein shown and described.

2. In a polishing-machine, the combination, with the plate L, having a standard, I, of the shaft M, journaled in arms of the standard I, the abrading-disk N, mounted on the lower end of the shaft M, and adapted to revolve in an aperture of the plate L, the spring O, the handle R, and means for revolving the shaft M, substantially as herein shown and described.

3. In a polishing-machine, the combination, with the plate L, provided with a standard, I, of a laterally-swinging rod, F, to which the standard I is pivoted, the shaft M, the disk N, and of means for revolving the shaft M, substantially as herein shown and described.

4. The combination, in a polishing-machine, of the attaching-arms supporting two guide-rods, upon which moves the adjusting-bracket, with the frame A and drum H, mounted upon one of the guide-arms above the adjusting-bracket, and a screw-rod for reciprocating said adjusting-bracket, substantially as set forth.

Witnesses: JEAN PIERRON.

OSCAR F. GUNZ,  
C. SEDGWICK.