

(No Model.)

D. L. MILLER.
SEWING MACHINE MOTOR.

No. 270,458.

Patented Jan. 9, 1883.

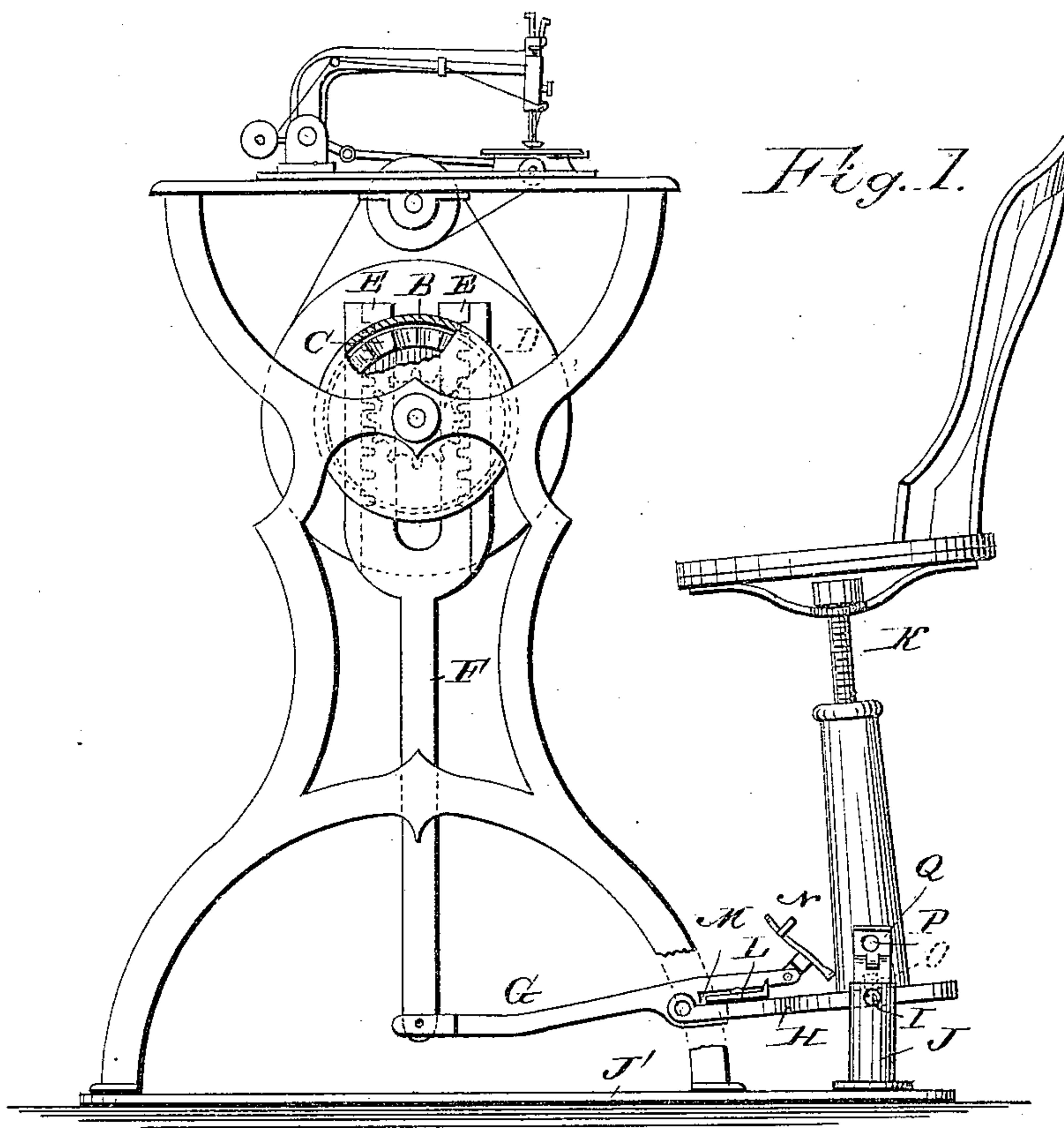
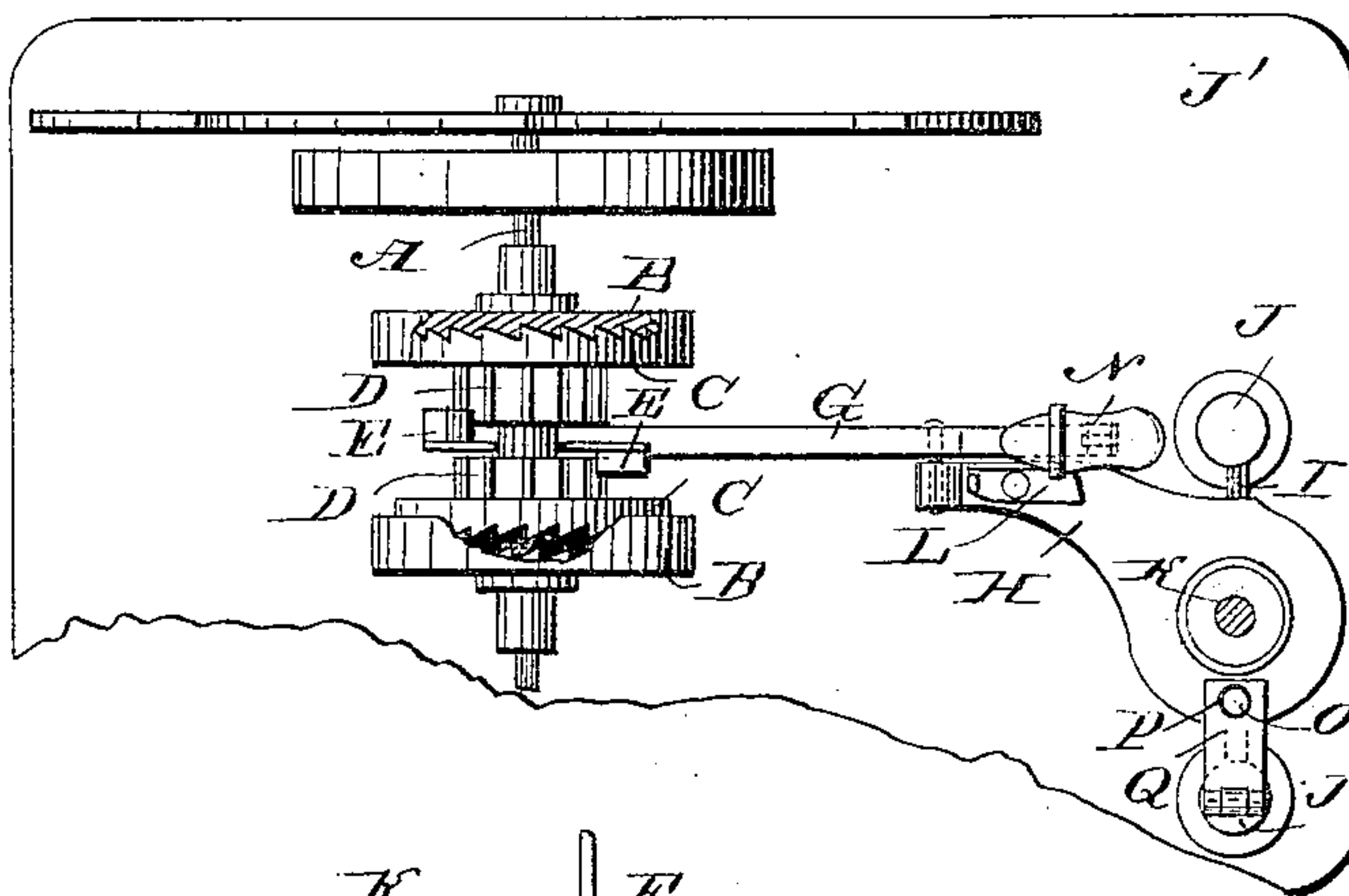


Fig. 2.



WITNESSES:
Wm. Beyer
C. Sedgwick

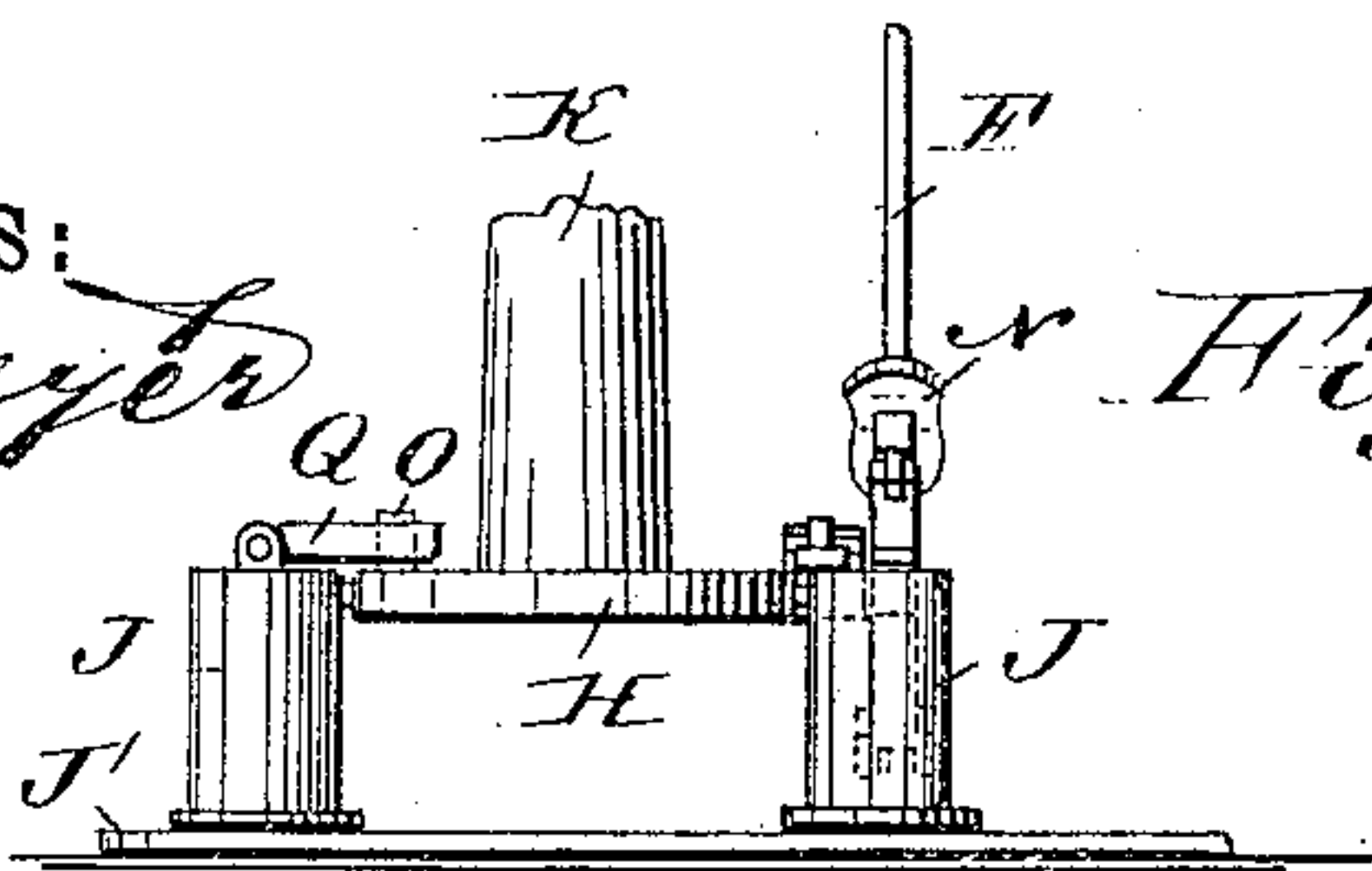


Fig. 3.

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UNITED STATES PATENT OFFICE.

DAVID L. MILLER, OF MADISON, NEW JERSEY, ASSIGNOR TO WILLIAM H. ELY, OF NEW YORK, N. Y.

SEWING-MACHINE MOTOR.

SPECIFICATION forming part of Letters Patent No. 270,458, dated January 9, 1883.

Application filed December 2, 1882. (No model.)

Be it known that I, DAVID L. MILLER, of Madison, in the county of Morris and State of New Jersey, have invented a new and Improved Motor for Sewing-Machines, of which the following is a full, clear, and exact description.

The object of my invention is to provide a new and improved motor for sewing-machines, scroll-saws, &c., which can be operated by foot or by a rocking or oscillating chair.

The invention consists in a sewing-machine motor consisting of a rocking platform, to which a lever is pivoted, which is also pivoted to the lower end of the bar for rotating the machine-shaft, which lever is provided at the end opposite the one pivoted to the driving-bar with a foot-rest, by means of which the lever can be oscillated. The rocking platform is provided with a latch for locking the lever to the said platform, whereby the machine can be operated by rocking the platform. A latch is provided for locking the oscillating platform in place when the lever is to be operated by foot, as will be fully described and set forth hereinafter.

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

Figure 1 is a side elevation of a sewing-machine provided with my improved motor, parts being broken away. Fig. 2 is a plan view of the same, parts being broken out and others shown in section, and the top plate being removed. Fig. 3 is a rear elevation of the lower part of the machine.

On the driving-shaft A of a sewing-machine are rigidly mounted two clutch-disks, B, with which two clutch-disks, C, are adapted to engage, the said clutch-disks C being mounted loosely on the shaft A and made integral with or united to cog-wheels D, each of which engages with a separate rack, E, in the forked upper end of a driving-bar, F, the lower end of which is pivoted to a lever, G, which is pivoted between its ends to a rocking platform, H, provided with pivots I, which have bearings in two standards, J, on a base-plate, J'. A chair, K, of any suitable kind rests on the

rocking platform H, upon which chair the person operating the machine sits. A latch, L, is pivoted on the upper surface of the platform H at that edge to which the lever G is pivoted, and the said latch is adapted to pass into a slot or recess, M, in the lever G. A foot-rest, N, is pivoted to that end of the lever G opposite the one pivoted to the lower end of the bar F. A stud, O, projects upward from the upper surface of the platform H, and is adapted to pass into an aperture, P, in a latch-plate, Q, pivoted on one of the standards J.

In place of the latch-plate Q and the stud O, any other suitable device may be used for locking the platform H in position on the standards J.

If the machine is to be operated by rocking the chair, the latch-plate Q is raised to disengage the platform H from the standards J, and the latch-plate L is passed into the slot or recess M of the lever G for the purpose of locking the said lever G to the platform H. If the platform H is rocked, the end of the lever G will be moved up and down, and the forked rod F, to which the racks E are attached, will also be moved up and down, and the two clutches C will alternately act on the clutches B and will rotate the shaft A.

In place of providing a rocking or oscillating chair in the manner described, the lever G can also be locked to the rocker of a rocking-chair of the usual construction. If the chair is to remain stationary and the machine is to be operated by foot, the latch Q is swung down to lock the platform H, rigidly on the standards, and the latch-plate L is withdrawn from the slot or recess of the lever G, whereby the said lever G will be disengaged and will be released from the platform H, and can be oscillated on its pivot by the foot, which is placed on the foot-rest M, whereby the bar F will be moved up and down, and the shaft A will be rotated. The motor can thus be adjusted very rapidly and easily to be operated by foot or by a rocking or oscillating chair, as the operator may desire.

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

1. In a sewing-machine motor, the combina-

tion, with a reciprocating bar for operating the shaft, of a rocking or oscillating platform or chair, and of a lever pivoted to the said platform and to the lower end of the reciprocating rod for rotating the shaft, substantially as herein shown and described, and for the purpose set forth.

2. In a sewing-machine motor, the combination, with a reciprocating bar for operating the shaft, of a rocking or oscillating platform or chair, of a lever pivoted to the said platform and to the lower end of the reciprocating rod for rotating the shaft, and of devices for locking the said lever to the rocking or oscillating platform or chair, substantially as herein shown and described, and for the purpose set forth.

3. In a sewing-machine motor, the combination, with a reciprocating bar for operating the shaft, of a rocking or oscillating platform or chair, of a lever pivoted to the said platform and to the lower end of the reciprocating rod for rotating the shaft, of a foot-rest on the inner end of the lever, and of devices for locking the oscillating platform in position, substantially as herein shown and described, and for the purpose set forth.

4. In a sewing-machine motor, the combination, with the shaft A, of the reciprocating box F for operating the same, the rocking

platform H, the lever G, provided with a slot or recess, M, and pivoted to the rocking platform H, and of the chair K on the rocking platform, substantially as herein shown and described, and for the purpose set forth.

5. In a sewing-machine motor, the combination, with the shaft A, of the reciprocating bar F for operating the same, the rocking platform H, the lever G, provided with a slot or recess, M, and pivoted to the rocking platform H, the foot-rest N, the latch-plate L, and devices for locking the rocking platform to the standards J, in which it is pivoted, substantially as herein shown and described, and for the purpose set forth.

6. In a sewing-machine motor, the combination, with the shaft A, of the reciprocating bar F for operating the same, the rocking platform H, the lever G, provided with a slot or recess, M, and pivoted to the rocking platform H, the foot-rest N, the latch-plate L, the stud O on the platform H, and the apertured latch pivoted on one of the standards J, substantially as herein shown and described, and for the purpose set forth.

DAVID L. MILLER.

Witnesses:

OSCAR F. GUNZ,
C. SEDGWICK.