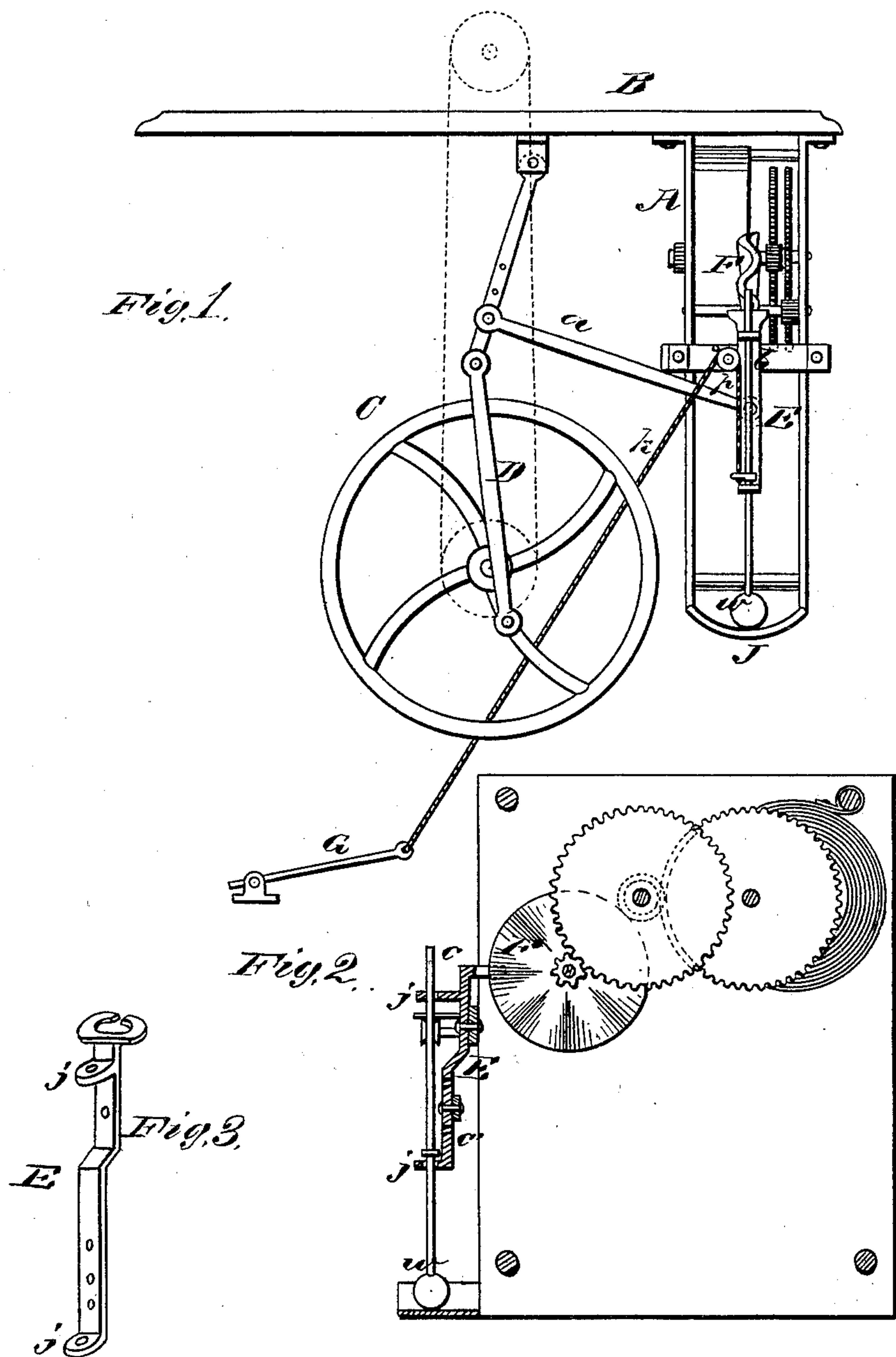


W. H. MYERS.
SEWING-MACHINE MOTOR.

No. 176,036.

Patented April 11, 1876.



WITNESSES
E. H. Bates
George E. Upshaw.

INVENTOR.
William H. Myers.
Gilmore, Smith & Co.,
ATTORNEYS.

UNITED STATES PATENT OFFICE.

WILLIAM H. MYERS, OF OREGON, WISCONSIN, ASSIGNOR OF ONE-THIRD OF HIS RIGHT TO E. HENRY OSBORN AND ONE-THIRD TO JAMES M. FOX, OF SAME PLACE.

IMPROVEMENT IN SEWING-MACHINE MOTORS.

Specification forming part of Letters Patent No. **176,036**, dated April 11, 1876; application filed April 3, 1876.

To all whom it may concern:

Be it known that I, WILLIAM H. MYERS, of Oregon, in the county of Dane and State of Wisconsin, have invented a new and valuable Improvement in Sewing-Machine Motor; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a representation of my motor attached to a sewing-machine table, and Fig. 2 is a vertical sectional view of the same. Fig. 3 is a detail view thereof.

This invention has relation to motors which are especially designed for driving sewing-machines, watchmakers' lathes, and other light machinery; and the nature of my invention consists in a vertically-adjustable pendulum, which is actuated by clock mechanism and a cam-wheel, in combination with a treadle for stopping and starting the motor, and with a device which will stop the movement of the pendulum when the foot is removed from the treadle, as will be hereinafter explained.

In the annexed drawings, A designates the frame of the improved motor, which is secured to a table-top, B, and C designates a balance-wheel, to the wrist-pin of which the lower end of a toggle-lever, D, is applied. The upper arm of the toggle has pivoted to it a pitman-rod, *a*, which is adjustably pivoted to a pendulum, E, having its fulcrum at *b*. This pendulum is composed of two parts, *c c'*. The part *c* receives between its upper bifurcated end the corrugated edge of a cam-wheel, F, which is geared with the train of wheels above referred to. The rotation of the wheel F transmits a vibratory motion to the pendulum E, and this pendulum transmits rotary motion to the fly-wheel through the medium of the pitman-rod *a* and toggle-joint D. The lower section *c'* of the pendulum, or that section which has the weight *w* attached to it, is free to rise

and descend through two ears, *jj*, formed on the pendulum-section *c*, and to the section *c'* a string or chain, *k*, is attached, which is carried over a pulley, *p*, and attached to a treadle, G. J is a stop-flange, which is curved, as shown, and located beneath the loaded end of the pendulum-rod *c'* in such relation thereto that when the foot of the operator is raised from the treadle G the vertically-movable section of the pendulum will be depressed by its own gravity, and stopped by contact with the stop-flange J.

When the treadle G is depressed, the pendulum-section is raised and freed from the flange J, which allows the pendulum to be vibrated by the cam-wheel F.

It will be seen from the above description that the fly-wheel C can be started or stopped at pleasure by simply depressing the treadle or raising it, and that the power obtained is derived from a spring or a weight acting through the medium of a train of wheels, which can be multiplied to any desired number.

What I claim as new, and desire to secure by Letters Patent, is—

1. In a motor for sewing and other machines whose prime force is derived from a spring or weight acting through a train of wheels, the sectional pendulum E, stop-flange J, pitman-rod *a*, toggle-joint D, and treadle-chain *k*, combined and operating substantially in the manner described.

2. In a motor for sewing and other machines whose prime force is derived from a spring or weight acting through a train of wheels, the sectional pendulum E, pitman *a*, toggle-joint D, and treadle-chain *k*, combined and operated substantially in the manner described.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

WILLIAM H. MYERS.

Witnesses:

M. A. Fox,
F. POWERS.