

L. W. Sapp,

Motor.

N<sup>o</sup> 68,314.

Patented Aug 27, 1867.

Fig. 1.

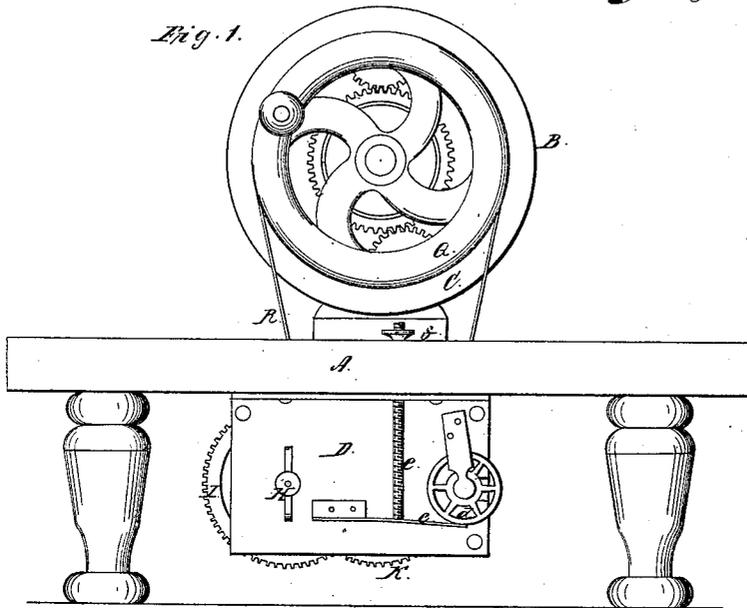


Fig. 2.

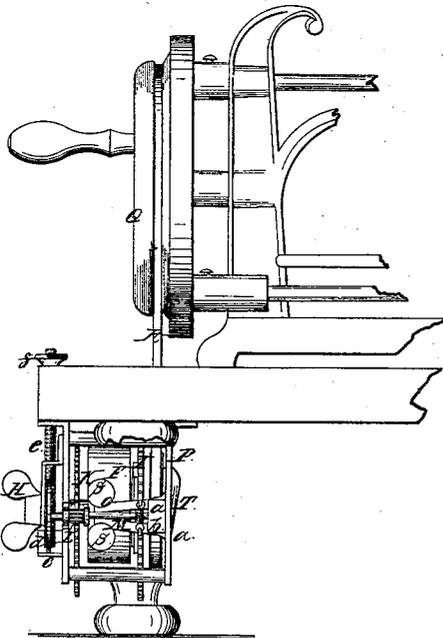
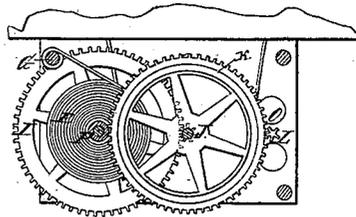


Fig. 3.



Witnesses:  
J. H. Brumby  
Frank S. Alden.

Inventor:  
L. W. Sapp

United States Patent Office.

L. W. SAPP, M. D., OF CLEVELAND, OHIO.

Letters Patent No. 68,314, dated August 27, 1867.

IMPROVEMENT IN MECHANICAL POWER APPLIED TO SEWING MACHINES.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, L. W. SAPP, of Cleveland, in the county of Cuyahoga, and State of Ohio, have invented certain new and useful improvements in Sewing Machines; and I do hereby declare that the following is a full and complete description of the same, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 is an end view of the machine.

Figure 2, a detached side views.

Figure 3 is a detached section.

Like letters of reference refer to like parts in the views.

In fig. 1, A represents a table, on which is placed and secured an ordinary sewing machine, B, a detached section of which only being shown, and of which C is the driving-wheel, by which the apparatus is run by the following machinery: D is a case, in which is arranged the coiled spring E, fig. 3, mounted upon the spindle F. The outer end of said spring is connected to the bar G, and is wound up by the finger-screw or key H, fig. 2. On the spindle F is also a cog-wheel, I, which is made to engage in a pinion indicated by the dotted lines J, fig. 3. This pinion gives motion to the cog-wheel K, which in turn engages in the pinion L on the shaft M, and thereby communicates motion to the governor O, fig. 2, by which the speed of the machine is regulated, as will hereafter be shown. P is a pulley connected to the wheel Q by a band, R, and by which the machine is driven as follows, viz: on winding up the machine, by means of the key referred to, the machinery is thereby put in motion, which, by its connection to the sewing machine, puts it also in motion, and thus obviates the necessity of using the foot or hand of the operator for driving the machine. By this device much labor is saved the operator, thereby enabling him to give his undivided attention and power to the work, and thus accomplish more and better results. By the application of the governor O, which may be placed in a horizontal or vertical position to this apparatus, the speed and operation of the same are regulated as follows:

As the balls S are made to fly apart by their velocity the shoulders T of the ball-arm, which it will be observed are on the opposite side of the pivots or fulcrum a by which the arms are attached to the cross-head b, will be made to press against the sides of the case, and thus by the induced friction cause a retardation of the velocity and revolution of the balls, and thereby check the speed of the machine more or less according to the pressure exerted by the shoulder on the side of the case. The machine may be brought to a full stop by the application of the brake, which consists of a spring, e, fig. 1, the free end of which is made to act upon the periphery of the wheel d keyed to the governor-shaft by means of the screw e attached to the spring, and adjusted nut f. By this means the brake can be applied at the will of the operator so as to control the movements or operation of the machine.

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

The driving mechanism, provided with controlling and regulating devices, constructed, arranged, and combined with a sewing machine, substantially as and for the purpose set forth.

L. W. SAPP, M. D.

Witnesses:

J. H. BURRIDGE,  
FRANK S. ALDEN.