DAVID T. PITTENGER.

Improvement in Motive Power for Sewing Machines.

No. 115,516. Patented May 30, 1871.

Fig. 1.

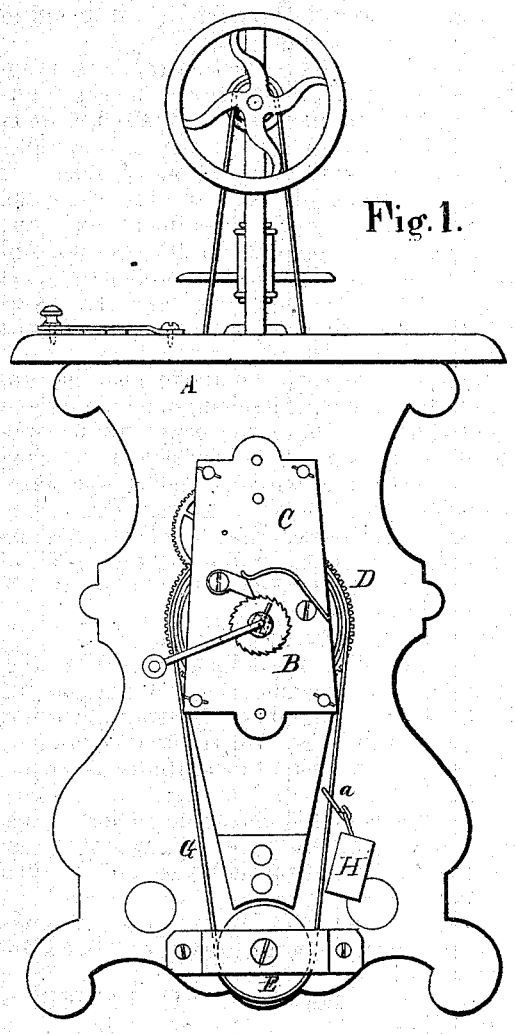


Fig. 2.

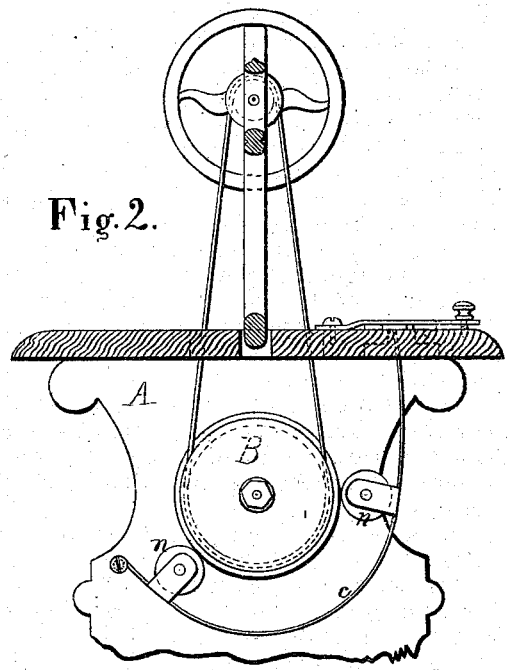


Fig. 3.

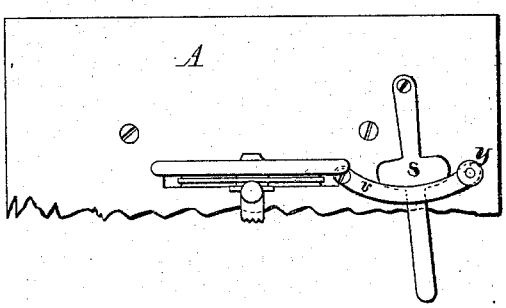


Fig. 4.

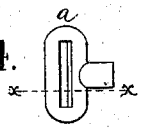
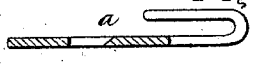


Fig. 5.



Witnesses.

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UNITED STATES PATENT OFFICE.

DAVID T. PITTENGER, OF TRENTON, NEW JERSEY.

IMPROVEMENT IN MOTIVE POWERS FOR SEWING-MACHINES.

Specification forming part of Letters Patent No. 115,516, dated May 30, 1871.

To all whom it may concern:

Be it known that I, DAVID T. PITTENGER, of Trenton, in the county of Mercer and State of New Jersey, have invented a new and valuable Improvement in Motors for Sewing-Machines; 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 drawing making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawing is an external end view of a sewing-machine with my device attached; Fig. 2 is a sectional view of the same; and Figs. 3, 4, and 5 are details.

My invention relates to means for operating sewing-machines; and consists in a novel construction and arrangement of devices intended to serve as an effective apparatus for the purpose mentioned.

The letter A of the drawing represents the table of a sewing-machine, to one end of which I affix the driving-shaft B with the drum C, the coiled spring D within the drum, together with the ratchet and pawl and gear-wheels, as shown. I also affix a pulley, E, to the side of the bottom of said table, and connect the same with the drum C by means of the belt G. The letter H represents a weight adapted for attachment to the belt G at any point desired thereon, by means of the slotted hook *a*. The slot in this hook *a* is rectangular in form, and is a little larger in size than the belt with which it is connected. It is also made with a beveled edge, as shown on Fig. 4, and serves to clamp the belt in order to attach the weight at any position desired. For the purpose of raising the weight H I sometimes arrange a cord and pulley to the ceiling of the apartment, but for ordinary use I prefer to raise it by hand. This weight H may be used in conjunction with the belt without the aid of the coiled spring, but the use for which I have designed it is as an aid or adjunct to said spring.

It often occurs in practice that a sewing-machine requires greater motive power at one time than at another, as, for example, greater power is needed to sew leather or very thick closely-woven cloth than ordinary fabrics. It is for this purpose that I desire the use of the weight. Whenever the power furnished by the coiled spring is inadequate for the purpose I add the weight to the belt. When not on duty the weight rests on the floor and the belt passes through the slot in the hook without hindrance therefrom.

In conjunction with the above-described apparatus for moving the sewing-machine I have invented and arranged the brake, shown specifically on Figs. 2 and 3 of the drawing. This brake is constructed with a curved elastic plate, *c*, friction-rollers *n*, lever *s*, and curved guard *v*.

It will be observed that the lever *s* is attached directly to the end of the spring-bar *c*, while the guard *v* is made tight or loose at will by the thumb-screw *y*.

I claim as my invention—

1. The beveled slotted cam-hook *a* and weight H for attachment to the belt, as an adjunct to the ordinary coiled-spring motion for sewing-machines, constructed, arranged, and adapted for use, substantially as specified.

2. The construction and arrangement of the spring-bar *c*, rollers *n*, lever *s*, guard *v*, and thumb-screw *y*, substantially as and for the purpose set forth.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

DAVID T. PITTENGER.

Witnesses:

LOUIS C. GOSSON,

PETER W. CROZER.