N. B. Derol,

Treadle,

No. 65,887, Patented June 18, 1867.

Fig. 1

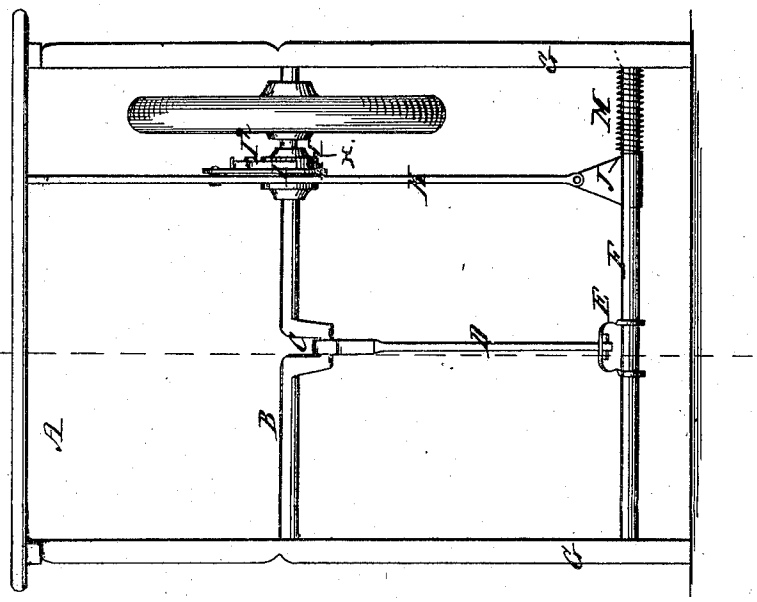


Fig. 3

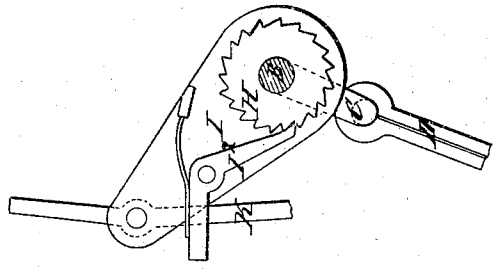
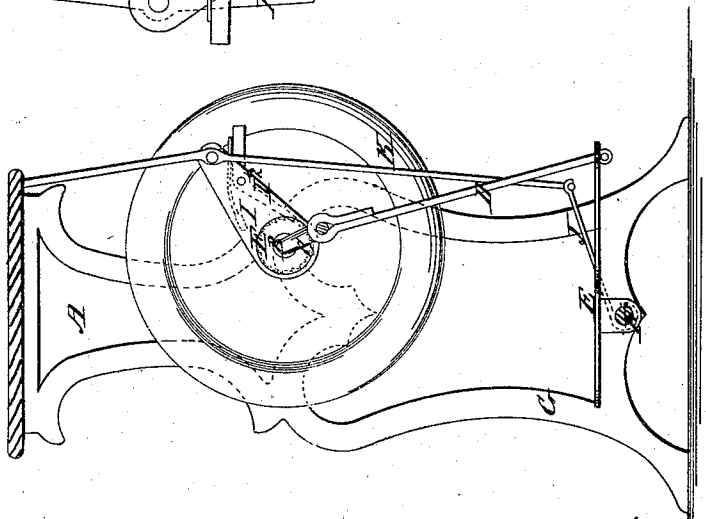


Fig. 2



Witnesses
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NOEL B. DEVOL, OF MARSHALL, ILLINOIS.

Letters Patent No. 65,887, *dated June* 18, 1867.

IMPROVEMENT IN TREADLE FOR SEWING MACHINES AND OTHER PURPOSES.

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, NOEL B. DEVOL, of Marshall, in the county of Clark, and State of Illinois, have invented a new and useful Improvement in Sewing Machines; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable those skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a front view of the table or stand of a sewing machine, with my improvement applied to the same.

Figure 2, a transverse vertical section taken in the plane of the line *x x*, fig. 1.

Figure 3, a detail view, to be hereinafter referred to.

Similar letters of reference indicate corresponding parts.

The object of the present invention is to prevent the machine from being started or run in the wrong direction, or backward at any time, and at the same time place the machine under the perfect control of the operator, and enable him or her, as the case may be, to properly start it with the utmost facility, without necessitating the use of the hands, as is now the case with machines not having my improvement applied to them.

A, in the drawings, represents the ordinary table or stand of a sewing machine, and B its operating or driving-shaft, having a crank, C, which, through a connecting or pitman-rod, D, is connected with one end of the treadle, E, suspended and swinging upon a centre or fulcrum-shaft, F, of the standards G, as is usual in sewing machines. H, a ratchet-wheel secured to crank-shaft B, and turning in common with it. I, an arm hung upon crank-shaft B to one side of its ratchet-wheel H, on which arm is hung a spring-pawl, I^2, in proper position to engage with the teeth of the ratchet-wheel H, when the arm I, to which it is hung as described, is pulled or swung downward, by bearing with the foot upon the supplementary treadle J, connected with the said arm through a pitman or connecting-rod, K, this supplementary treadle J being hung and swinging upon the same fulcrum-shaft F with the ordinary treadle E.

When it is desired to start the sewing machine the supplementary treadle J is depressed by the foot, which, acting through its pitman-rod K, and the arm I, with its spring-pawl I^2, and the ratchet-wheel H of the driving-shaft, revolves the latter, the revolution of which can be continued by bearing or pressing down the ordinary treadle E of the machine, as is obvious without any further explanation; the arrangement of the ratchet-wheel and its pawl, &c., as above described, preventing, as is apparent, the turning of the crank-shaft B in the wrong direction or backward, and also serving to facilitate the starting of the machine without requiring the use of the hands—advantages of the most importance. To limit the upward play or swing of the arm carrying the spring-pawl for the ratchet-wheel of the crank-shaft B, I have extended the pitman-rod of such arm, and connecting it with the supplementary treadle, to a sufficient height toward the table of the machine as to come to a bearing or stop against the under side of the same, as plainly shown in the drawings, figs. 1 and 2, a spring, M, serving to throw back the treadle J after each depression of the same.

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

The ratchet-wheel H, secured to the crank-shaft B of a sewing machine, arm I, having spring-pawl I^2, pitman-rod K, supplementary treadle J, and spring M, or its equivalent, when all combined and arranged together so as to operate substantially as and for the purpose described.

NOEL B. DEVOL.

Witnesses:

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