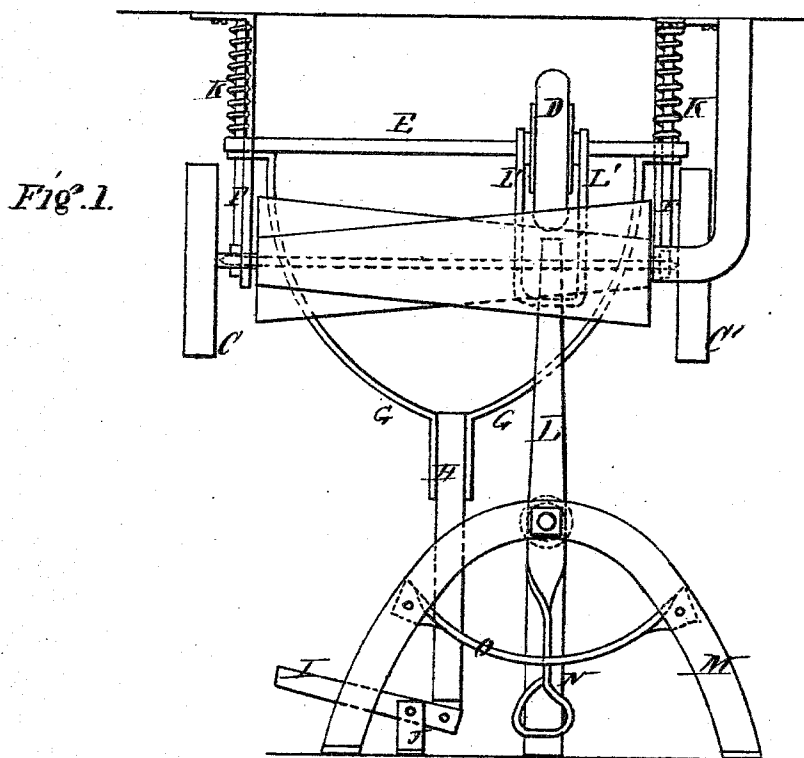


DAVID H. SHERMAN.

Improvement in Motor for Sewing Machines.

No. 118,650.

Patented Aug. 29, 1871.



Witnesses.

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David H. Sherman,
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Attys.

[97.]

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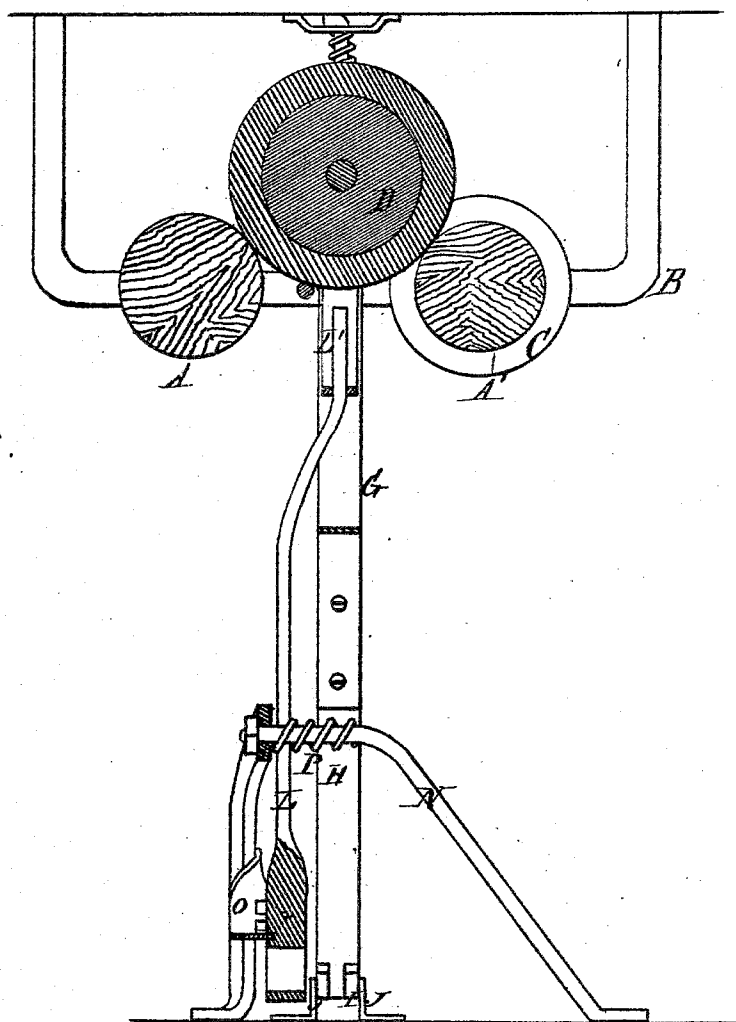
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Fig. 2.



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UNITED STATES PATENT OFFICE.

DAVID H. SHERMAN, OF WAUKEGAN, ILLINOIS.

IMPROVEMENT IN MOTORS FOR SEWING-MACHINES.

Specification forming part of Letters Patent No. 118,650, dated August 29, 1871.

To all whom it may concern:

Be it known that I, DAVID H. SHERMAN, of Waukegan, in the county of Cook and State of Illinois, have invented a new and valuable Improvement in Sewing-Machine Motors; 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 a representation of a side elevation of my invention. Fig. 2 is a vertical section of the same.

This invention has relation to sewing-machine motors; and consists in the construction and novel arrangement of devices, as hereinafter described, by means of which several sewing-machines can be driven from a single driving-shaft and their speed easily regulated.

Referring to the drawing, A A' represent a pair of revolving cones journaled within a strong frame, B, which is secured to and depends from the under side of the machine-table. The shafts of said cones are horizontal and parallel with each other. Each shaft holds a belt-wheel, C, from which motion is given to the sewing-machines by means of belts. The shaft of roller or cone A is furnished also with a belt-wheel, C', by means of which said cone receives motion from a main shaft and wheel through the medium of a communicating-belt. Any number of cones may be driven from the cone A by means of friction-wheels.

In the drawing, D represents a friction-wheel arranged to operate the roller A', said wheel being actuated by roller A. This wheel is swiveled to a transverse shaft, E, and may be shifted along it, in the manner hereinafter described. The shaft E is adapted to slide up and down upon vertical rods or standards F, in order to place the friction-roller in or out of contact with the cones. The ends of the shaft E rest on a

pair of arms, G, which diverges from the upper end of a lever-arm, H. A pedal, I, is attached to the lower end of arm H, and pivoted to the sides of a stirrup, J. By pressing down the pedal, the shaft E and friction-wheel D are raised to release the latter from the cones. A pair of spiral springs, K, on the standards F serves to place the roller in contact with the cones when the foot is taken from the pedal.

L designates a lever having a forked end, L', which embraces the roller D. The shaft E passes through said forked end. This lever is pivoted to a stand, M, by means of a bent brace, N, and is designed for the purpose of shifting the position of the friction-roller in order to regulate the speed of the cone A'. The lever is retained in any desirable position by means of a rack, O, supported by the stand M, and is held in contact with said rack by a spiral spring, P, on the brace N.

The cone A may be the middle one of three, driving those on either side, while the latter may drive others, running, thereby, as many sewing-machines as there are cones.

The friction-rollers should be made of or covered with India rubber, to increase their power.

I claim as my invention—

1. For communicating motion to sewing-machines, the driving-cone A, adjustable friction-roller D, and cones A', substantially as specified.

2. The combination, with the cones A A', of the friction-roller D, lever L, spring H, and rack O, substantially as specified.

3. The combination, with the cones A A', of the bar F, springs K, arm H, pedal I, and adjustable roller D, substantially as specified.

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

DAVID H. SHERMAN.

Witnesses:

HIRAM L. HUGUNIN,
NATHANIEL SHERMAN.