2 Sheets--Sheet 1.

J. K. WELTER.

Power for Running Sewing-Machine.

No. 162,441. Patented April 20, 1875.

Fig 1

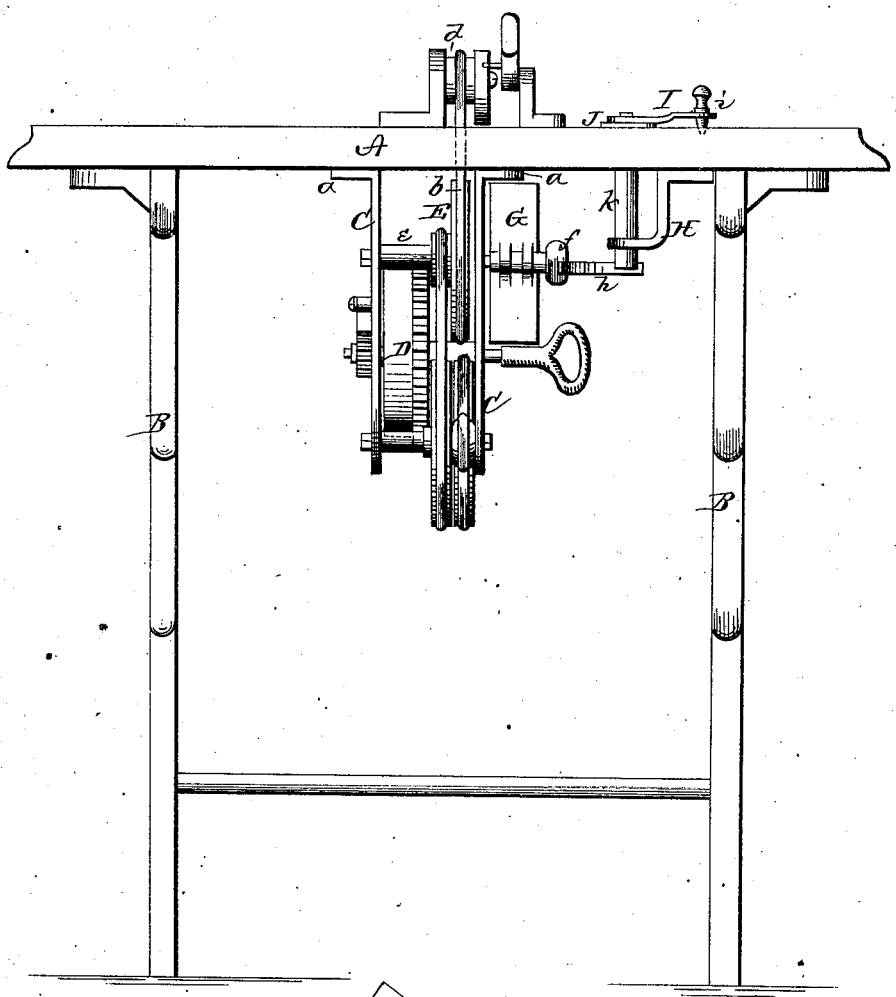
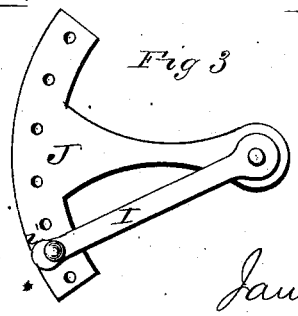


Fig 3



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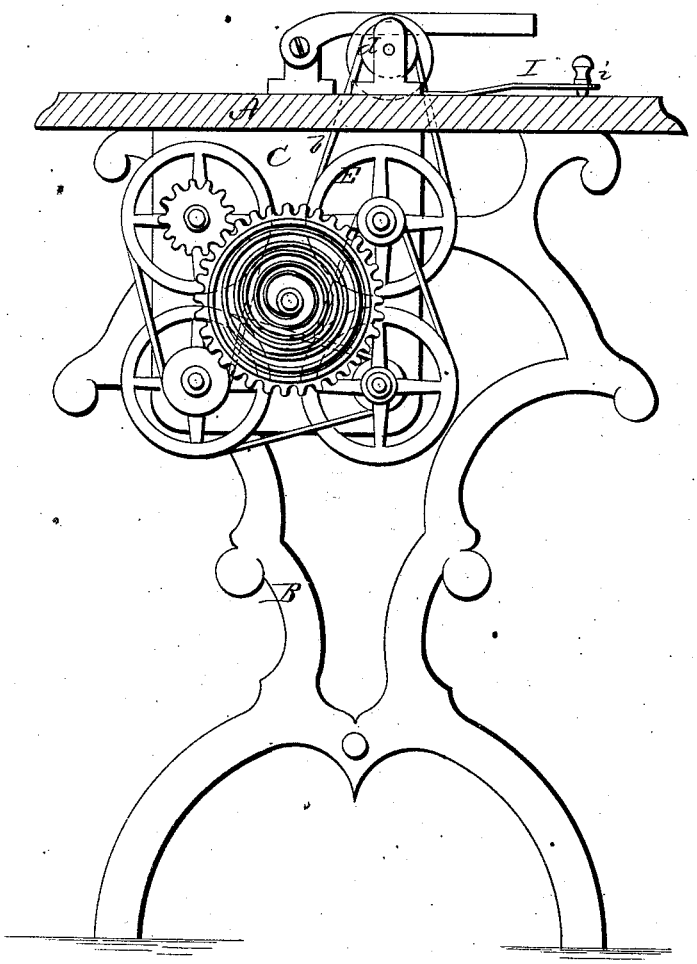
2 Sheets--Sheet 2.

J. K. WELTER.

Power for Running Sewing-Machine.

No. 162,441. Patented April 20, 1875.

Fig 2



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UNITED STATES PATENT OFFICE.

JAMES K. WELTER, OF SPRINGFIELD, ILLINOIS, ASSIGNOR OF THREE-FOURTHS HIS RIGHT TO JOHN F. PRITCHARD AND NAT. COVINGTON, OF SAME PLACE.

IMPROVEMENT IN POWERS FOR RUNNING SEWING-MACHINES.

Specification forming part of Letters Patent No. **162,441**, dated April 20, 1875; application filed July 24, 1874.

To all whom it may concern:

Be it known that I, JAMES K. WELTER, of Springfield, in the county of Sangamon and State of Illinois, have invented a new and useful Improvement in the Power for Running Sewing-Machines; and I do hereby declare that the following is a full and exact description of the same, reference being had to the accompanying drawings and to the letters of reference marked thereon.

The nature of my invention consists in the construction and arrangement of a motor for sewing-machines, as will be hereinafter more fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawings, which form a part of this specification, and in which—

Figure 1 is a front elevation of a sewing-machine stand with my invention attached thereto. Fig. 2 is a transverse vertical section of the same. Fig. 3 is a plan view of the speed-regulating mechanism.

A represents an ordinary sewing-machine table, supported upon the usual metallic stands or frame B. C C represent two metal plates, of any suitable dimensions, provided at their upper edges with projecting ears or flanges *a a*, which are fastened to the under side of the table A. Between these plates is arranged a clock-work, D, the wheels of which may be connected by belts, chains, or cogs, as may be deemed most advantageous; the last wheel in the series having a belt, *b*, which runs up through apertures in the table A and around a pulley, *d*, on the machine. On the same shaft as this pulley are the devices for operating the machine. This clock-work can be attached to and used with any sewing machine, it being easily attached on the under side of the table, to be out of the way. The shaft *e* of the wheel E—around which the belt *b* passes—is extended beyond the frame C, and provided with a fan, G, and on the end of the said shaft is a smooth pulley, *f*, against which a spring-arm, *h*, is to operate for the purpose of regulating the speed of the machine. The spring-arm *h* is attached in or to the lower end of a vertical shaft, *k*, which passes up through a bracket, H, and through the table A. On the upper end of the shaft *k* is attached a lever, I, the outer end of which is provided with a pointer, *i*, to enter holes in a dial-plate, J, in the top of the table.

By changing the lever I so that the pointer enters different holes in the dial-plate, the spring-arm *h* is made to bear with more or less pressure on the periphery of the pulley *f*, and thereby regulate the speed of machine in connection with the fan G, so as to make any desired number of stitches per minute.

Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

In combination with the clock-work D, and cross-shaft E having fan G and pulley *f*, I claim the vertical shaft *k*, provided with the spring *h* at its lower end, held in place by the bracket H, and connected to the lever I upon the sewing-machine table, which lever has a pointer, *i*, and is adjusted by means of the perforated dial J, all substantially as set forth.

This specification signed and witnessed this 20th day of July, 1874.

JAMES K. WELTER.

Witnesses:

LOUIS H. TICKNOR,

E. H. AYER.