

GEORGIANA L. TOWNSEND.

DEVICE FOR OPERATING SEWING-MACHINES.

No. 177,084.

Patented May 9, 1876.

Fig: 1.

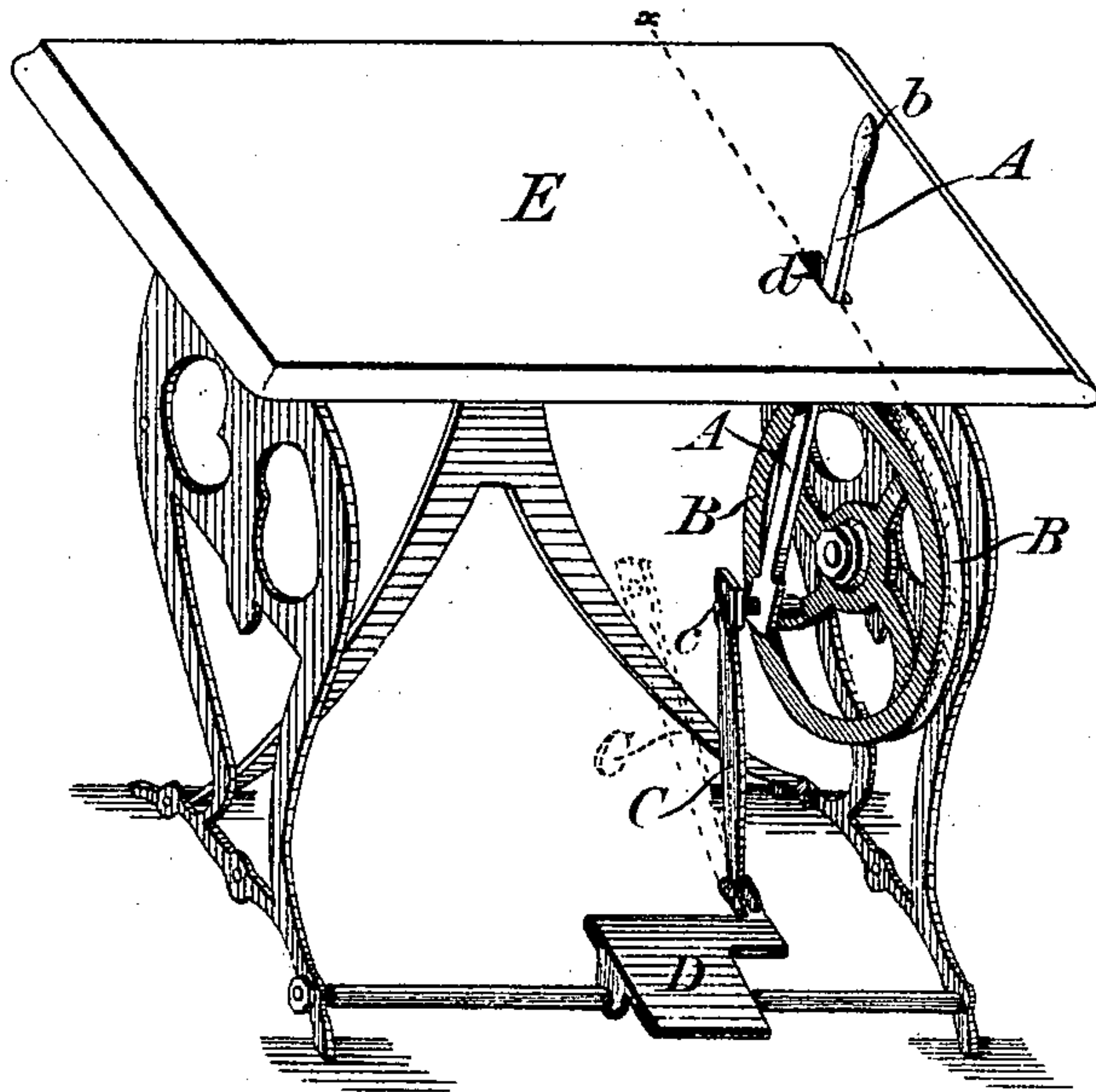
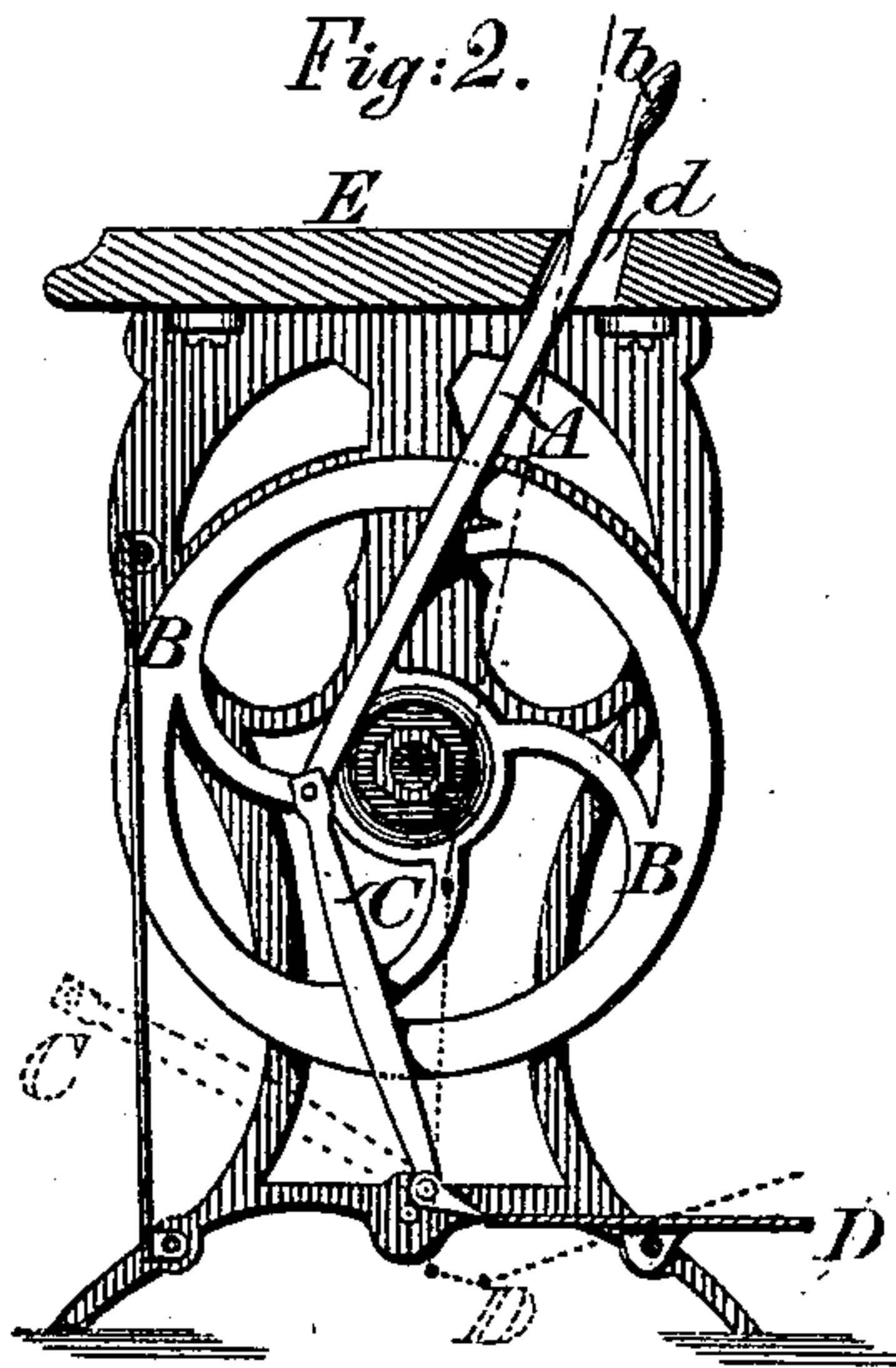


Fig: 2.



WITNESSES

James P. Philp
G. B. Towles.

By

Attorney.

INVENTOR

Georgiana L. Townsend
W. Burris.

UNITED STATES PATENT OFFICE.

GEORGIANA L. TOWNSEND, OF PHILADELPHIA, PENNSYLVANIA.

IMPROVEMENT IN DEVICES FOR OPERATING SEWING-MACHINES.

Specification forming part of Letters Patent No. **177,084**, dated May 9, 1876; application filed April 10, 1876.

To all whom it may concern:

Be it known that I, GEORGIANA L. TOWNSEND, of Philadelphia, in the county of Philadelphia, and State of Pennsylvania, have invented certain new and useful Improvements in Mechanical Movements for Operating Sewing-Machines, or other treadle-machines; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to which it pertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

Figure 1 is a perspective view. Fig. 2 is a transverse section on line *x* of Fig. 1.

My invention relates to mechanical movements for operating sewing-machines, or other treadle-machines, and consists of a vertical lever extending through a slot in the top of the machine, and connected with the crank-arm of the drive-wheel, and provided with a handle, adjusted above the top of the machine to be operated by a vertical motion of the hand, as hereinafter described.

In the drawings the improvement is illustrated on an ordinary treadle-machine having the drive-wheel at the right; but it is evident that with slight modifications it may be attached to and used on any other machine.

A represents a vertical lever, the lower end of which is attached to the crank-arm *c* of the drive-wheel B, and the upper part, provided with a handle, *b*, extends through a slot, *d*, in the top E of the machine. The lever is made long enough to extend the handle above the top of the machine sufficiently to be readily grasped by the hand and allow the vertical

motion by which it is operated. When the vertical lever is used the pitman C is detached, as shown by dotted lines in the drawings, thus dispensing with the weight of the pitman and treadle D, and securing the full power of the drive-wheel. With the vertical lever the machine may be run more rapidly and with less fatigue to the operator than by the treadle or ordinary crank. The machine may be readily adjusted at any time to be operated by the lever or by the treadle, to suit the preferences of the operator. And in long continued work the machine may be changed, in a moment, from the lever-movement to the treadle-movement, and vice versa, to rest the tired limbs of the operator without stopping the work.

My improved mechanical movement may be applied to any other machine operated by a treadle, as well as to sewing-machines.

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

An improved mechanical movement for operating sewing-machines, consisting of an upright lever, A, connected at the lower end to the crank-arm of the drive-wheel of the machine, its end passing through a slot in the table and provided at the top with a handle, *b*, and adjusted to be operated by a reciprocating vertical motion with the hand, substantially as and for the purposes described.

In testimony that I claim the foregoing as my own invention I affix my signature in presence of two witnesses.

GEORGIANA L. TOWNSEND.

Witnesses:

W. MORGAN LANSDALE,
THOMAS A. PORTER.