

W. D. WOOD.

Treadles of Sewing-Machines.

No. 140,865.

Patented July 15, 1873.

Fig. 1.

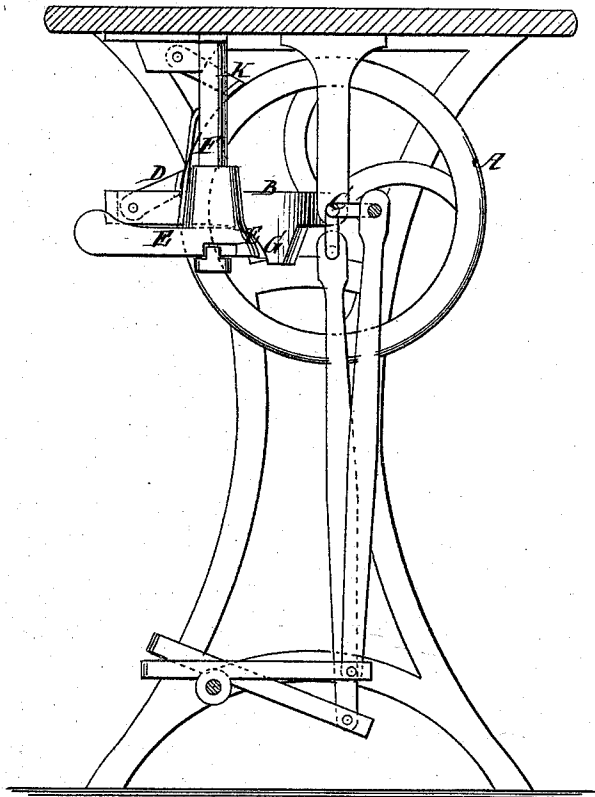
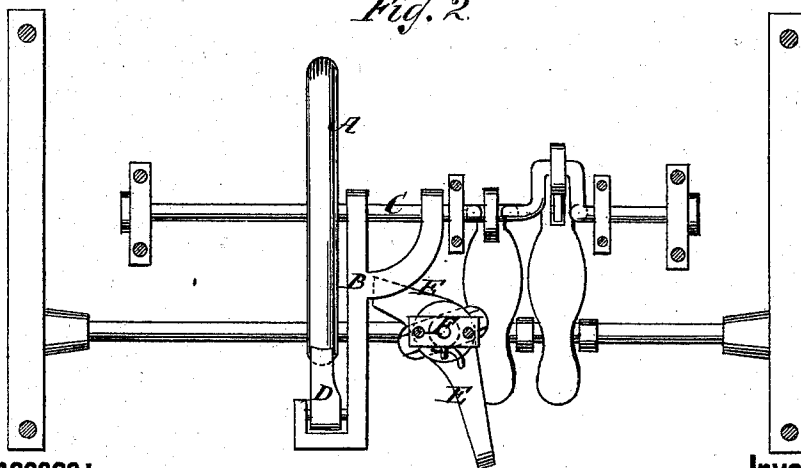


Fig. 2.



Witnesses:

E. Woff.
Sergius

Inventor:

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UNITED STATES PATENT OFFICE.

WILLIAM D. WOOD, OF MOUNT STERLING, OHIO, ASSIGNOR TO HIMSELF
AND JOHN CLARRIDGE, OF SAME PLACE.

IMPROVEMENT IN TREADLES OF SEWING-MACHINES.

Specification forming part of Letters Patent No. **140,865**, dated July 15, 1873; application filed
June 7, 1873.

To all whom it may concern:

Be it known that I, WILLIAM D. WOOD, of Mount Sterling, in the county of Madison and State of Ohio, have invented a new and useful Improvement in Treadles of Sewing-Machines, of which the following is a specification:

My invention consists of a pawl and lever and a bell-crank combined with the treadle mechanism of a sewing-machine, in such manner that the operator can start the machine by a lateral movement of one of the knees, and thus save the labor of starting the wheel by hand. My invention also consists of a holding-pawl combined with the balance-wheel and a double crank, the object being to prevent the machine from being turned backward, to which a double crank is liable without a holding-pawl.

Figure 1 is a transverse sectional elevation of my improved machine, and Fig. 2 is a horizontal section.

Similar letters of reference indicate corresponding parts.

A is the balance-wheel. B is a pawl-lever pivoted on the crank-shaft. D is a pawl pivoted on said lever and bearing on the periphery of the balance-wheel. E is a bell-crank suspended on a vertical pivot by the side of the balance-wheel, and supporting the pawl-

lever B on one of its ends, while the other end projects at the front so that the knee of the operator ranges alongside of it when the foot is on the treadle, and can be conveniently used to lift the wheel, through the medium of the bell-crank and pawl, by a slight lateral movement against the bell-crank. The lever B has a projection, G, on the under side, whereon there is an inclined plane, against which the bell-crank works to raise the pawl-lever.

As a double crank is likely to start backward sometimes, I propose to employ a holding-pawl, K, in connection with the wheel, in all cases in which I use a double crank, to prevent starting backward.

When the starting contrivances are used a special pawl will not be needed, as the starting-pawl will serve to hold the wheel as well.

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

The combination, with the wheel A, of the bell-crank lever E, the pawl-lever B, provided with inclined plane G, and the pivoted pawl D, substantially as shown and described.

WILLIAM D. WOOD.

Witnesses:

IRA BUZICKS,
DAVE F. BINDER.