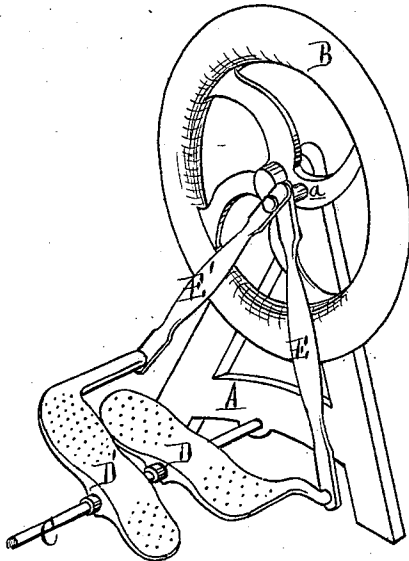


M. H. KNAPP.

Treadles for Sewing-Machines.

No. 142,704.

Patented September 9, 1873.



ATTEST:

N. S. Sprague
C. F. Chubb

INVENTOR:

M. H. Knapp
By Attorney
N. S. Sprague

UNITED STATES PATENT OFFICE.

MYRON H. KNAPP, OF FULTON, NEW YORK.

IMPROVEMENT IN TREADLES FOR SEWING-MACHINES.

Specification forming part of Letters Patent No. **142,704**, dated September 9, 1873; application filed July 25, 1873.

To all whom it may concern:

Be it known that I, MYRON H. KNAPP, of Fulton, in the county of Oswego and State of New York, have invented an Improvement in Treadles for Sewing-Machines, &c., of which the following is a specification:

This invention relates to an improvement in treadles for sewing-machines, whereby the operator is enabled to move the feet alternately, as in walking, and is always able to start the machine, irrespective of the position of the pedals, thereby avoiding the dead-centers, the motion described being much less fatiguing than that of the single treadle, where the feet are moved in unison. The invention consists in two pedals pivoted on the lower shaft of the frame, the one being connected by a rod from an offset at its front end to the crank-pin of the driving-wheel, and the other by a rod connecting an offset from its rear end to the said crank-pin, or, when applied to the machine as ordinarily constructed, to a wrist near the top of the usual connecting-rod.

A represents a portion of the standard of a sewing-machine, and B the driving-wheel mounted on a shaft journaled in the standard, and having a wrist-pin, *a*. C is a shaft at the lower part of the standard, on which the pedals D D' are sleeved independently of each other. The right pedal D is molded with an offset extending laterally to the right and rear from its heel, with a wrist at its extremity, which is connected to the wrist of the driving-wheel by a pitman, E. The left pedal D' has

a lateral offset extending across the front end of the right pedal, which is also connected to the wrist of the driving-wheel by a pitman, E'. The effect of this arrangement is, that the driving-wheel can always be started by depressing one of the treadles, whether the other be on a center or not, and the movement is kept up by alternating the movement of the feet, as in walking, making it easy and natural for the operator.

By employing any one of the stop-motions now in use the machine can always be started in the right direction by the foot.

Where the improvement is to be applied to a machine having the ordinary single treadle, one pitman may be pivoted at its upper end to a wrist projecting from the other pitman near its top, which is connected to the wrist or crank pin of the driving-wheel; or a new wrist-pin long enough to have both pitmen strapped to it may be supplied.

By means of cones the pedals D D' may be fitted to most sewing-machines now made.

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

The pedals D D' and pitman-rods E E', constructed and arranged, with relation to the shaft C, and wrist *a*, and driving-wheel B of a sewing-machine, substantially as and for the purpose set forth.

MYRON H. KNAPP.

Witnesses:

EDMUND BARTLETT,
WILLIAM MONROE.