

I. P. FISHBURN.

Improvement in Driving Mechanism for Sewing-Machines.

No. 132,956.

Patented Nov. 12, 1872.

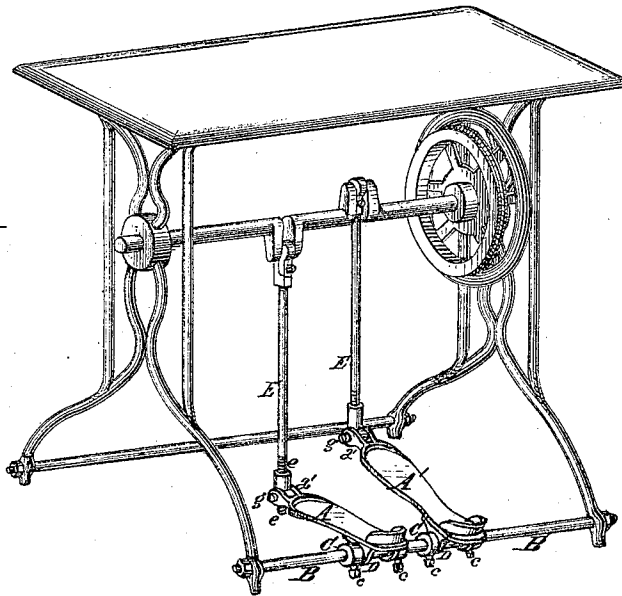
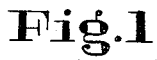


Fig. 2

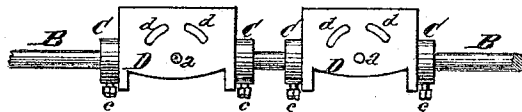


Fig. 3

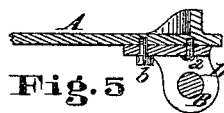
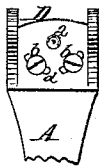
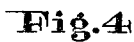
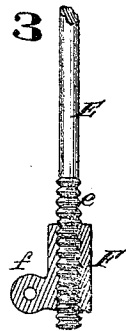


Fig. 5



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ISAAC P. FISHBURN, OF CINCINNATI, OHIO.

IMPROVEMENT IN DRIVING MECHANISMS FOR SEWING-MACHINES.

Specification forming part of Letters Patent No. 132,956, dated November 12, 1872.

To all whom it may concern:

Be it known that I, ISAAC P. FISHBURN, of Cincinnati, Hamilton county, State of Ohio, have invented certain new and useful Improvements in the Driving Mechanism of Sewing-Machines, of which the following is a specification:

Nature and Objects of Invention.

My invention relates principally to improvements upon the treadle mechanism for sewing-machines for which Letters Patent were granted to me August 27, 1872; and consists, first, in a peculiar device by which the angle of the foot-plate or treadle with relation to the line of the crank-shaft can be varied to suit the feet of different operators; second, in a simple device by which the pitman or pitmen may be lengthened or shortened to vary the angle of the foot-plate with relation to a horizontal plane.

Description of the Accompanying Drawing.

Figure 1 is a perspective view of the treadle mechanism of a sewing-machine embodying my invention; Fig. 2 is a plan of the cross-bar and supports for the heel ends of the foot-rests or treadles; Fig. 3 is a view of the device for adjusting the length of the pitman or pitmen; Fig. 4 is a bottom view of the treadle and heel-support; and Fig. 5 is a cross-section of the same.

General Description.

The treadles A A' are so attached that the feet of the operator are placed wholly, or nearly so, in front of the fulcrum-bar B. The position of the heel is shown in Fig. 5. The purpose of this is explained in my former patent, before alluded to. To the cross-bar or fulcrum-bar B collars C are secured firmly by set-screws e, so as to be adapted for adjustability. Between each pair of collars a treadle-bracket, D, is journaled in the manner shown. The treadles or foot-plates A A' are pivoted at a

to these rests or brackets D, so that the treadles may be capable of swinging upon the brackets to change the angle of the said plates for the purpose of adjusting the treadles to suit the degree of spread of the operator's feet. To permit this angle to be changed without disturbing the vertical position of the pitman the collars are adjusted along the round bar B. Slots d are provided in the brackets D concentric to the pivot a, through which the screws b pass which fasten the brackets to the treadles in the manner shown. Each pitman E, where more than one is used to each machine, is provided with a screw-threaded end, e, which is fitted with a nut, F, through which the screw passes. To one side of the nut a perforated ear, f, is formed, which fits the jaw a' of the treadle, a pin, g, serving to link the nut and treadle together so as to permit of vibration in the usual way. To change the angle of the treadle or treadles with relation to a horizontal plane it is only necessary to remove the pin g and give the nut one or more revolutions up or down. The nut F is made loose upon the screw e, so that in the motion of the treadle, when the latter is set to any angle but a right angle, it may have the necessary swiveling motion on its screw.

Claims.

1. The combination of bar B, adjustable collars C, slotted brackets D d, and pivoted treadles A A' a, operating substantially as and for the purpose specified.
2. The combination of treadle A, pitman E e, and adjustable nut F f, constructed and operating substantially in the manner and for the purpose specified.

In testimony of which invention I hereunto set my hand.

ISAAC P. FISHBURN.

Witnesses:

FRANK MILLWARD,
I. L. WARTMANN.