

J. C. MOORE.
Sewing-Machines.

No. 135,930.

Patented Feb. 18, 1873.

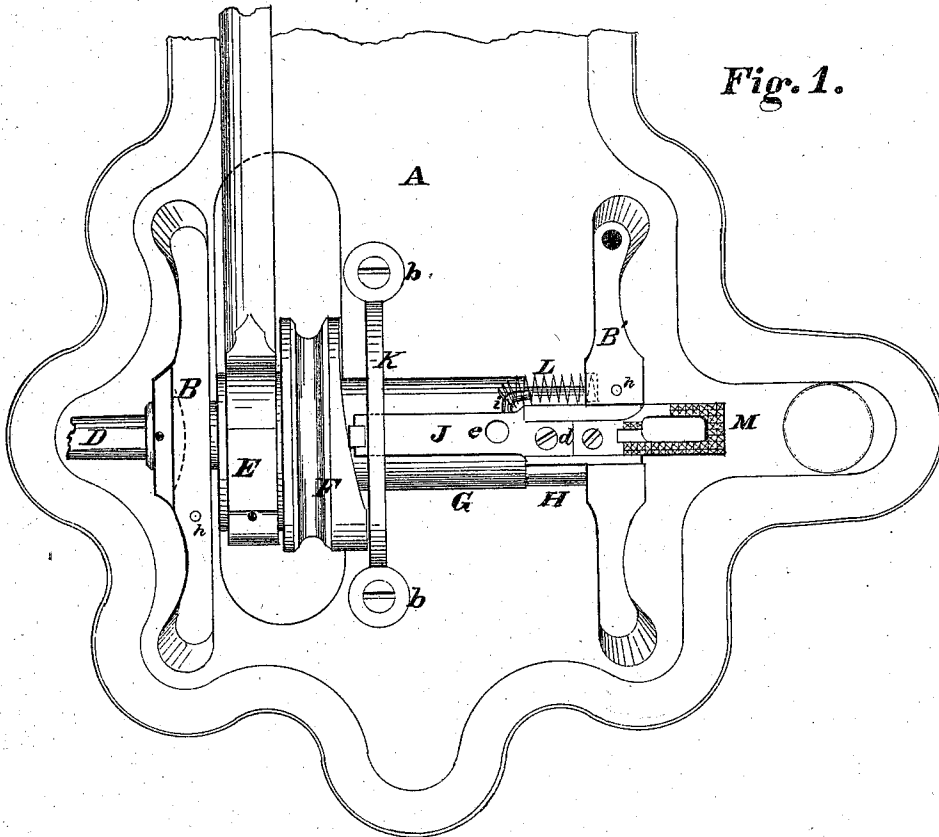


Fig. 1.

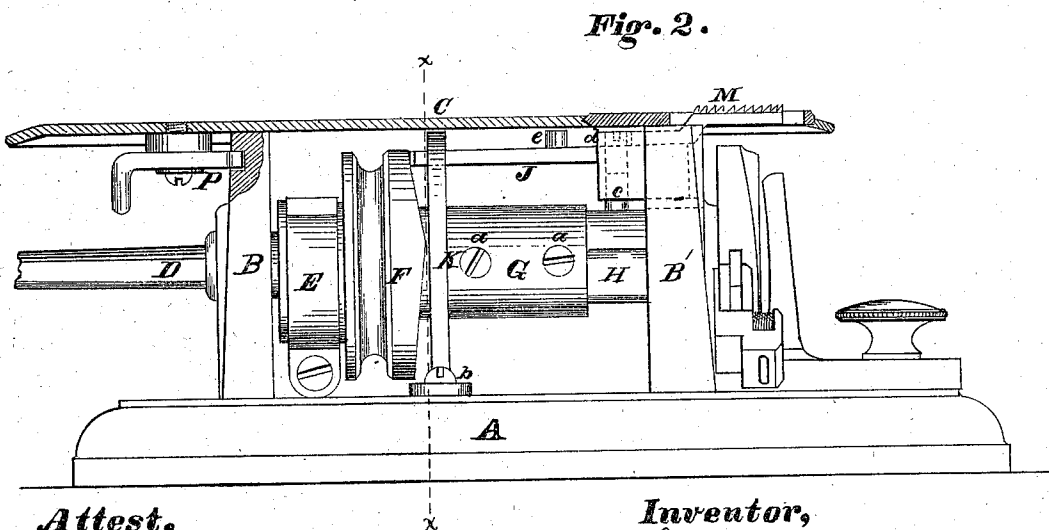


Fig. 2.

Attest,
Wm. H. Jones.
S. Liefer.

Inventor,
John C. Moore
by his Atty.
A. M. Connet & Bro.

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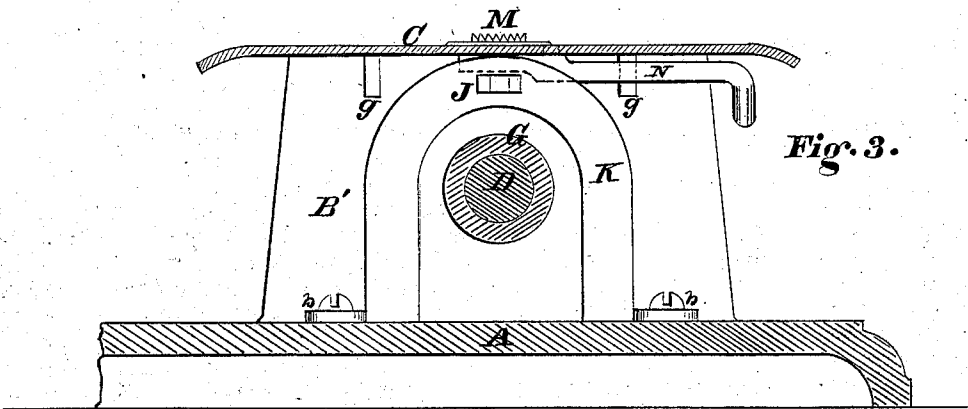


Fig. 3.

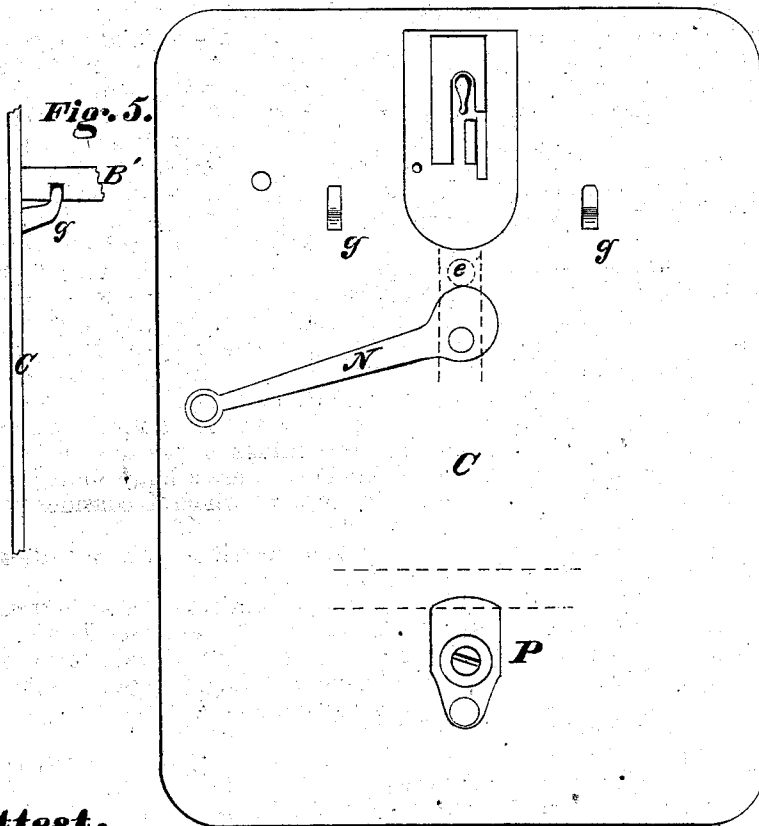


Fig. 4.

Attest,
Wm. H. Jones.
J. Liefer

Inventor,
John C. Moore
by his Attys
A. M. Connette & Bro.

UNITED STATES PATENT OFFICE.

JEHU C. MOORE, OF MADISON, INDIANA.

IMPROVEMENT IN SEWING-MACHINES.

Specification forming part of Letters Patent No. 135,930, dated February 18, 1873.

To all whom it may concern:

Be it known that I, JEHU C. MOORE, of Madison, in the county of Jefferson and State of Indiana, have invented certain Improvements in Sewing-Machines, of which the following is a specification:

My invention consists in the peculiar construction and position of the feed-bar, by which it is easily adjusted to the driving-cam, and is operated with but little noise, substantially as herein specified.

In the drawing only that portion of the machine containing my improvements is shown.

Figure 1 is a plan of the machine with the plate removed. Fig. 2 is a front view of the same with the plate in section. Fig. 3 is a sectional view through the line *x x*, Fig. 2. Fig. 4 is a view of the under side of the plate. Fig. 5 is a view showing the catch for holding the plate on.

Like letters of reference designate corresponding parts in all the figures.

A is the bed of the machine; B B', the uprights for the support of the plate C. D is the spindle, and E is the eccentric for giving motion to the needle. These parts are the same as those in the Wheeler & Wilson machine. F is a grooved pulley of as great diameter as the plate C will admit, formed in one piece with the sleeve G, eccentric E, and cam H, and secured to the spindle D by means of set-screws *a a* in the usual manner. One face of the pulley F is in the form of a cam, which moves the feed-bar forward. The cam H serves to raise the said bar at the proper time, as in the present machine. The rear end of the feed-bar J has a bearing in a mortise in the guide K, and is tipped with rawhide where it bears against the cam. The guide K is rigidly secured to the bed of the machine at *b b*. A spring, L, at the side of the feed-bar moves it back at the proper time. The forward end of the bar is slotted to re-

ceive the shank of the feed-points M, and is guided by a slot in the upright B'. The feed-bar is bored and tapped over the cam H, and a bearing-point, *c*, of hardened steel or rawhide (preferably the latter) inserted to take up the wear, and a set-screw, *d*, inserted at the top for adjusting the same. A lever, N, for regulating the length of the stitch, as shown in Figs. 3 and 4, is riveted to the under side of the plate, and its cam-shaped end operates against a stud, *e*, of rawhide on the feed-bar. This stud is sufficiently high to impinge against the under side of the plate when the machine is run rapidly, and thus prevent the rattling of the feed-bar against the plate, as it does in the present machine. This insures noiseless action.

To remove the feed-bar, compress the spring L slightly until it clears the hook *i*, and remove it; then slide the bar forward until it disengages from the mortise in K, and lifts it out. Replace it by a reverse operation. Replace the plate by first engaging the hooks *g g*; then bring down the rear end and the pins *h h* will engage; then turn the cam P until all is tight and secure.

By the use of a feed-bar, as above described, with both its bearings on one side of the pulley, I am enabled to use a large pulley and a round belt, both of which I consider to be improvements.

Having thus described my invention, I claim—

The feed-bar J, supported in a mortise in the piece K in front of the pulley F, and provided with a stud, *e*, of rawhide to prevent contact of said bar with the plate C, substantially as described, and for the purposes set forth.

JEHU C. MOORE.

Witnesses:

HENRY C. CONNETT.

WILLIAM T. FRIEDLEY.