J. O. SLOAN.

Sewing-Machine Caster.

No. 220,673. Patented Oct. 14, 1879.

Fig. 1

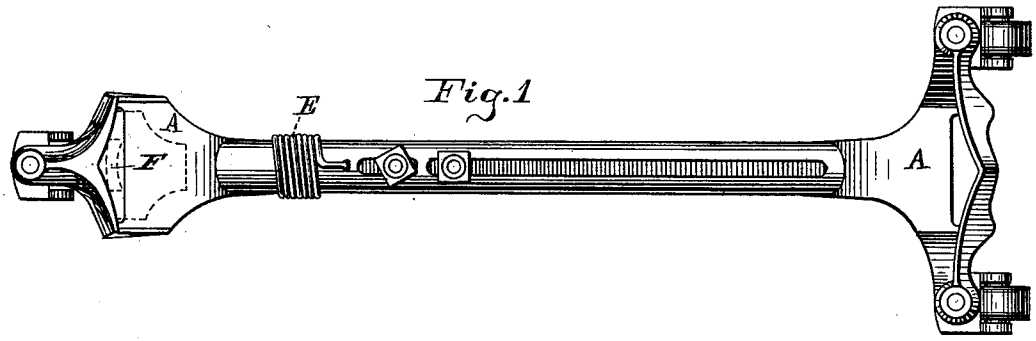


Fig. 2

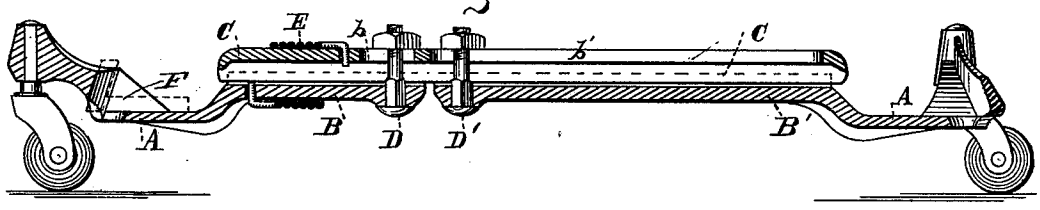


Fig. 3

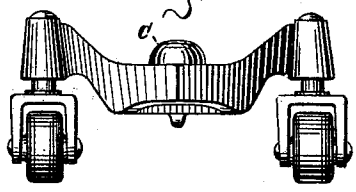


Fig. 4

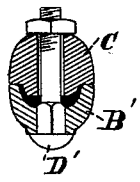


Fig. 5

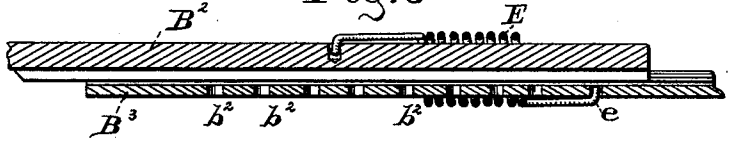
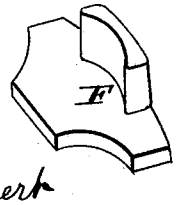


Fig. 6



Attest

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UNITED STATES PATENT OFFICE.

JOHN O. SLOAN, OF CINCINNATI, OHIO.

IMPROVEMENT IN SEWING-MACHINE CASTERS.

Specification forming part of Letters Patent No. **220,673**, dated October 14, 1879; application filed April 15, 1879.

To all whom it may concern:

Be it known that I, JOHN O. SLOAN, of the city of Cincinnati, in the county of Hamilton and State of Ohio, have invented a new and useful Improvement in Sewing-Machine Casters, of which the following is a specification.

The object of this invention is a caster-frame that can be readily adjusted to firmly embrace the feet of the various sewing-machines.

The invention consists in the use, with a sewing-machine caster-frame, the opposite platforms of which are adjustably united, of a spring, the respective ends of which are connected to different pieces of said frame, so that the frame can be readily sprung to its place on the feet and securely held in position.

It consists, also, in providing the platforms with separate and detachable pieces, which adapt the same frame to be used with the variously-shaped feet of the different machines.

In the accompanying drawings, in which similar letters of reference indicate like parts in the different figures, Figure 1 is a plan view of a caster-frame to which my improvements are attached; Fig. 2, a longitudinal vertical section of the same. Fig. 3 is an end view. Fig. 4 is a transverse section of the coupling-bars. Fig. 5 is a vertical longitudinal section of a modified form of my coupling-bars; and Fig. 6, a perspective view of the detachable floor or platform-piece F.

A A are the platforms and caster-wheel pieces. These are substantially the same as the similar parts described in my former Patents No. 153,728 and No. 213,844, dated, respectively, August 4, 1874, and April 1, 1879.

B and B^1 are arms extending from the platforms. C is a slotted coupling-bar matched into the arms B and B^1.

D D′ are bolts which pass through the ends of the arms B B^1 and through the slots b b^1 of the coupling-bar. E is a spring coiled around the arm B and bar C. One of its bent ends enters a hole in the bar and the other a hole in the arm B.

The short slot b permits a limited extension of the frame to spring it onto the feet of the machine, while the long slot b^1 admits of the frame being adjusted to suit the feet of any machine. The tension of spring E draws the bar toward the single-wheel platform until the inner end of slot b is brought against bolt D.

The mode of applying the form of my invention represented by Figs. 1 to 4, inclusive, is as follows: The nuts upon both bolts being loosened, the frame is adjusted a little short for the feet to which it is intended to be applied, and the nut on bolt D′ is tightened. One foot of the machine is then inserted in one of the platforms, and then by taking hold of the opposite platform the frame is expanded until the opposite foot rests upon its platform. When released the springs clamp the frame securely to its place.

If desired to release the spring from strain, the nut upon bolt D may now be tightened, and the caster-frame thus rigidly held upon the feet.

In the modification shown in Fig. 5 of the drawings the bar C and bolts D D′ are omitted. In place of the bar C the arms of the platform are lengthened and made to overlap and match into each other in the same way the bar C matches the arms B B^1 in Figs. 1, 2, and 4. The upper one of these lengthened arms, B^2, has a single perforation to receive one of the bent ends of the coiled spring E, and the lower bar, B^3, has a number of these perforations, b^2, either of which is adapted to receive the opposite bent end e of the spring. To apply this form of frame to the feet the end e of the spring is withdrawn from the arm B^3, and the frame extended to nearly the desired length. The end e of the spring is then inserted in the hole b^2 nearest to it. The frame is applied in the same manner as the preferred form.

As the feet of sewing-machines vary in shape as well as size, I have provided, to be used in connection with my caster-frames, detachable foot-pieces F, the upper and inner surfaces of which are made to conform to the shape of any sewing-machine feet, and the pieces made to snugly fit into my platforms.

Fig. 6 represents a form adapted to one kind of foot, and in dotted line, Figs. 1 and 2, are shown the pieces in place in the platforms. By means of these pieces I am enabled to apply my casters to any sewing-machine.

I claim—

1. A sewing-machine caster-frame the opposite platforms of which are adjustably united, in combination with a spring, E, the opposite ends of which are attached to members of the sliding extensible coupling for the purpose of readily applying and firmly holding the caster-frame in place, substantially as described.

2. In combination with platform A of a sewing-machine caster-frame, the detachable piece F, said piece being shaped to fit the platform and sewing-machine foot, substantially as and for the purpose set forth.

JOHN O. SLOAN.

Witnesses:
GEO. J. MURRAY,
JOHN LOWE.