J. B. SECOR.

Cam-Slides for Sewing-Machines.

No 157,298. Patented Dec. 1, 1874.

FIG. I.

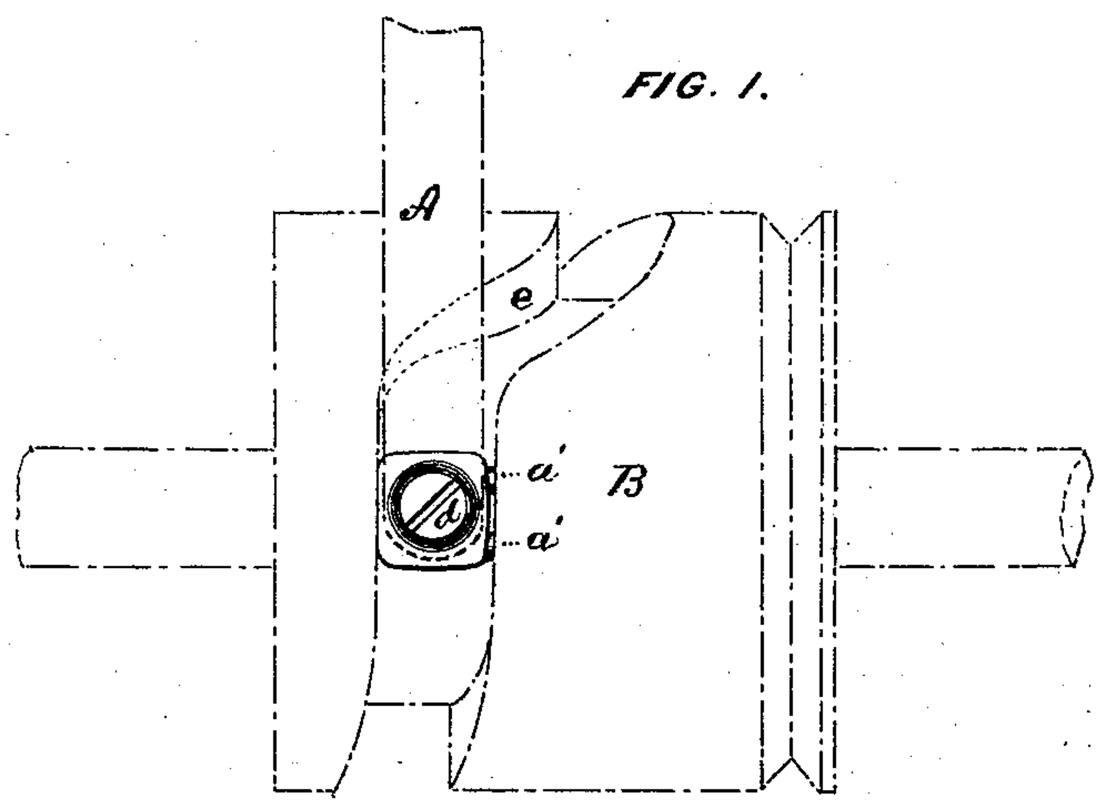


FIG. II.

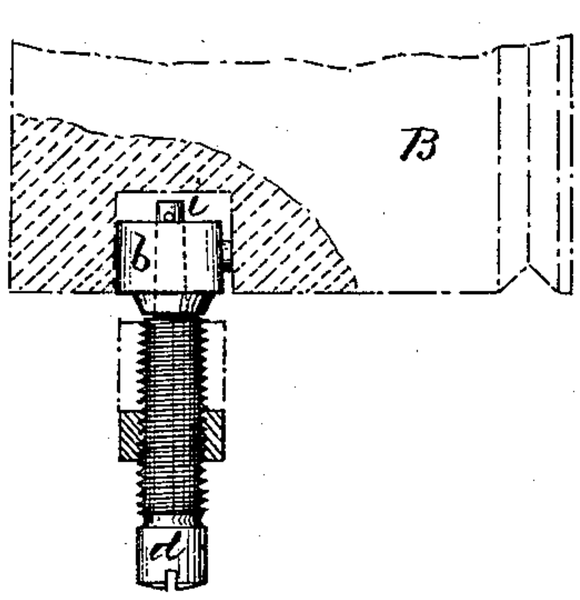


FIG. V.

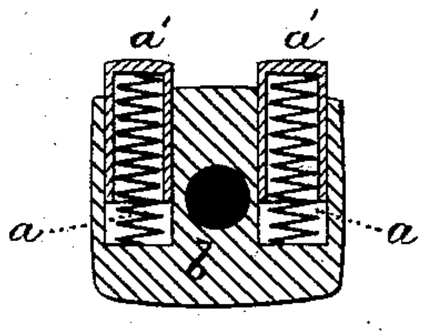


FIG. III.

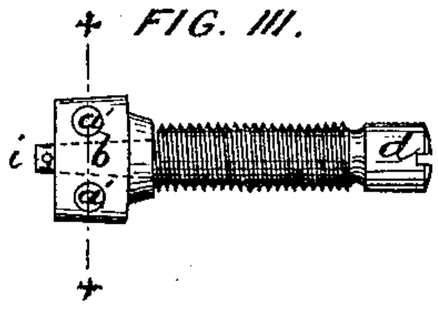
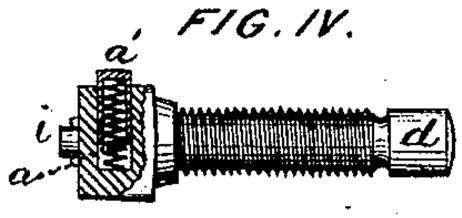


FIG. IV.



WITNESSES:

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UNITED STATES PATENT OFFICE.

JEROME B. SECOR, OF BRIDGEPORT, CONNECTICUT.

IMPROVEMENT IN CAM-SLIDES FOR SEWING-MACHINES.

Specification forming part of Letters Patent No. **157,298**, dated December 1, 1874; application filed November 3, 1874.

To all whom it may concern:

Be it known that I, JEROME B. SECOR, of Bridgeport, in the county of Fairfield and State of Connecticut, have invented certain new and useful Improvements in Cam-Slides for Sewing-Machines; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to which it pertains to make and use the same, reference being had to the accompanying drawings and to the letters of reference marked thereon, which form a part of this specification.

My invention consists in the construction of a metallic slide, within which are two pistons (or one only may be used) adjusted upon a pivot, around which it may revolve freely, such pivot being a prolongation of a screw that may be attached to the needle-arm of a sewing-machine. The slide, with its piston or pistons and springs, is constructed so as to work easily within a cam-groove, adapting itself to the varying angles of the same, the piston and springs compensating for any wear of the same, and by their construction always filling the groove in the cam.

Figure 1 shows in dotted lines a cam with its groove, the relation of the slide with its springs and piston to the needle-arm, and groove in cam. Fig. 2 shows the adjustment of the slide upon its pivot, one of the pistons connected with the same, and within the groove formed upon the cam, the latter in dotted lines. Fig. 3 shows the screw-rod that is attached to the needle-arm of the sewing-machine, the slide upon its pivot, and the heads of the pistons within the slide. Fig. 4 is a cross vertical section of the slide, showing piston and spring adjusted within the slide. Fig. 5 is a cross vertical section of the slide in line *x x*, Fig. 3, showing the relation of the pistons and springs to the slide.

In the drawings, A represents the needle-arm, to which the screw-rod *d* is attached; B, the cam, and *e* the groove in the cam; *b*, the slide-block; *i*, the pivot, around which it rotates in its passage through the cam-groove; *a' a'*, the pistons, secured within the slide-block; and *a a*, the springs of the pistons secured within the same, as shown in Figs. 4 and 5.

This invention is adapted for use to other than sewing-machines.

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

1. The combination of the springs *a a* and pistons *a' a'* with the block *b* and pivot *i*, in the manner and for the purpose herein set forth.

2. The combination of the block or slide *b* with the cam and its groove of a sewing or other machine, when said block or slide is supplied with springs *a* and pistons *a'*, the whole constructed, arranged, and operated in the manner and for the purpose herein set forth.

In testimony that I claim the foregoing as my own I affix my signature in presence of two witnesses.

JEROME B. SECOR.

Witnesses:

DAVID P. SECOR,

GEO. W. WARNER.