H. F. SAHNDERS.

Fastening-Slides for Bed-Plates of Sewing-Machines.

No. 131,907. Patented Oct. 1, 1872.

Fig. 1

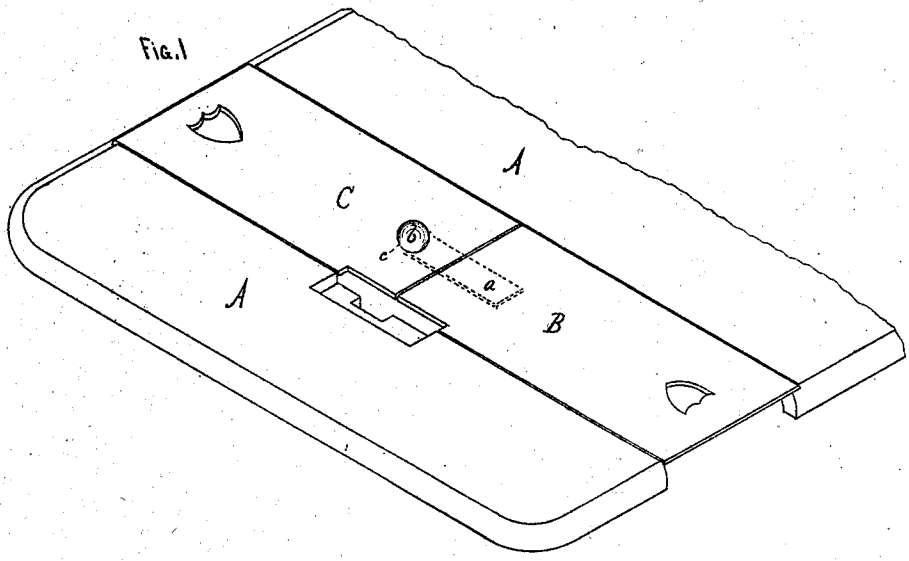


Fig. 2



WITNESSES.

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AM. PHOTO-LITHOGRAPHIC CO. N.Y. (OSBORNE'S PROCESS.)

UNITED STATES PATENT OFFICE.

HENRY F. SAHNDERS, OF WESTFIELD, NEW YORK.

IMPROVEMENT IN FASTENING-SLIDES FOR BED-PLATES OF SEWING-MACHINES.

Specification forming part of Letters Patent No. **131,907**, dated October 1, 1872.

To all whom it may concern:

Be it known that I, HENRY FERDINAND SAHNDERS, of Westfield, in the county of Chautauqua and State of New York, have invented certain Improvements in Slides for the Bed-Plates of Sewing-Machines, of which the following is a specification:

My invention has for its object an improved attachment for securing the slide or slides from becoming displaced by the movement of the machine, the vibration due to the motion of its working parts, or by any accidental cause; and it consists in the arrangement of a button or finger-knob, in combination with a guiding arm projecting longitudinally from the under side of the slide-plate, said button engaging with a hole of corresponding size in the opposite or abutting slide-plate, or with a hole in the bed of the machine, when there is but one slide-plate, said abutting-plate (or that portion of the bed against which the slide abuts) being inclined on its under side, to enable the button to pass, by the yielding of the arm, into the hole, when the two portions of the slide, or the abutting portions of the single slide and bed, are brought together, as hereinafter described.

Figure 1 is a perspective view of a portion of the bed or cloth-plate and slides of a sewing-machine having my device attached thereto. Fig. 2 is a longitudinal section of the same.

In sewing-machines using a shuttle the top of the cloth-plate A is provided with one or more slides, B C, which are movable, to admit of access to the shuttle and its removal. The slides soon become loose in their fittings by wear and friction, rendering them liable to slip out of place by the jar of working the machine, or by moving or inclining it, and by being accidentally touched. This imposes constant watchfulness on the operator, and causes unnecessary trouble, loss of time, and often serious damage to the fabric by contact with the working-parts thus exposed, and with the oil used thereon. I obviate this difficulty by a locking device which is self-connecting and concealed, with the exception of the pressure-knob or button, which is visible and accessible, enabling the operator to disengage the slide by a single touch of the finger when required. This knob or button *b* is carried by a longitudinally-projecting arm, *a*, attached to the under side of the slide B. The arm *a* is of suitable length to sustain the button *b* in a position beyond the joint which divides the abutting-plates or slides, and the opposite one is provided with a hole, *d*, which the button enters, and thereby secures the two plates together. The arm *a* is so constructed as to admit of the button (the normal position of which is level with the surface of the slide) being depressed when it is brought, by the movement of the slide B, in contact with the part C, (the proximate edge of which is inclined, as shown at *e*,) and to this end it may be made of spring material, or rigid and jointed at its connection with the slide A, in which case it should be held in position by a spring. The device is thus self-connecting whenever the parts B and C are brought together, and is readily disconnected by the pressure of the finger on the knob *b*, to depress it below the surface of the slide or bed, when the slide B can be withdrawn. In machines having but one slide the hole for the reception of the pressure-knob *b* will be made in the bed-plate A with the same effect.

The advantages of this locking device are, that it is perfectly effectual in holding the slide or slides from becoming displaced; that it is disengaged from the top of the cloth-plate, thereby obviating the necessity of the operator looking or reaching under to disconnect the slide; that it is self-engaging, and the arm, from extending longitudinally with the slide, is less liable to be broken in inserting or withdrawing, not being subjected to any strain transversely, as if it projected laterally, and is less liable to catch in the fabric being worked upon, or the clothing of the operator.

I claim as my invention—

The device for securing sewing-machine slides, consisting of the finger-knob *b* and yielding-knob *a*, with and arranged to project longitudinally from the slide B, in combination with the hole *d* and incline *e* of the opposite side or abutting portion of the bed, substantially as and for the purposes set forth.

In testimony whereof I have hereunto signed my name in the presence of two subscribing witnesses.

HENRY F. SAHNDERS.

Witnesses:

J. K. DRAKE,

C. N. WOODWARD.