R. H. St. JOHN.

SEWING MACHINE SHUTTLES.

No. 190,925. Patented May 15, 1877.

Fig. 1.

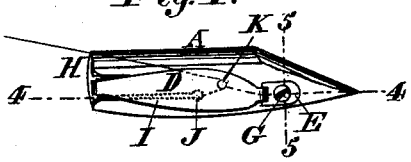


Fig. 2.

Fig. 3.

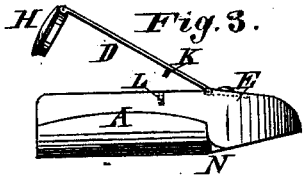


Fig. 4.

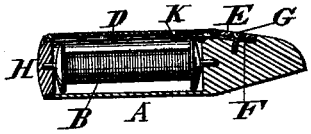


Fig. 5.

Fig. 7.

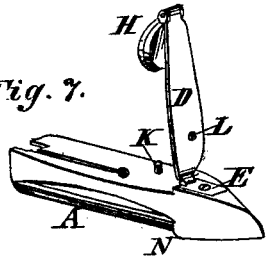
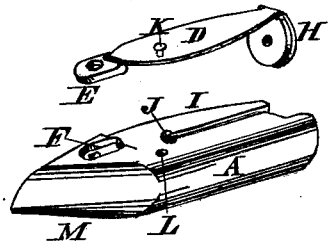


Fig. 6.



WITNESSES

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ROSWELL H. ST. JOHN, OF SPRINGFIELD, OHIO.

IMPROVEMENT IN SEWING-MACHINE SHUTTLES.

Specification forming part of Letters Patent No. **190,925**, dated May 15, 1877; application filed January 31, 1877.

To all whom it may concern:

Be it known that I, ROSWELL H. ST. JOHN, of Springfield, in the county of Clarke and State of Ohio, have invented certain new and useful Improvements in Sewing-Machine Shuttles, of which the following is a specification:

My improvement consists in providing the latch of a sewing-machine shuttle with a hinge plate located in an excavation in the shuttle-toe, and adjustable by means of a set-screw, so as to permit said hinge to be raised or lowered to regulate the pressure of the latch upon the thread.

In the accompanying drawings, Figure 1 is a top view of a shuttle, to which my improvement is applied. Fig. 2 is a rear view thereof, showing the latch secured against the side of the shuttle-case by its heel-piece and set-screw. Fig. 3 is a front view, showing the latch turned up on its hinge-plate. Fig. 4 is a vertical longitudinal section on the line 4 4, Fig. 1, showing the hinge-plate raised in its excavation. Fig. 5 is a transverse section of the forward end of the shuttle on the line 5 5, Fig. 1. Fig. 6 is a perspective view, the latch with its hinge-plate and heel-piece being shown detached from the shuttle-case. Fig. 7 is a perspective view, showing a position that the latch can assume on its hinge-plate.

A may represent a hollow shuttle case or body, having a suitable bobbin, B. The case is slotted at I for the passage of the thread to an orifice, J, having its sides beveled to prevent the cutting of the thread.

K is a pin or stud, around which the thread is passed. The pin K enters an orifice, L. The converging forward end M of the case is depressed or elliptical in cross-section, and provided with lateral projection N to prevent turning. This is the construction of shuttle to which I prefer to apply my improvement to show the best mode of embodying my invention.

D is a latch hinged to an adjustable hinge-plate, E, adapted to be raised or lowered by means of a set-screw, G, located in an excavation, F, in the forward end of the shuttle-case. The rear end of the latch may be hinged to a heel-piece, H, forming a cap to the bobbin-receptacle.

The position of the hinge-plate E admits of the adjustment of the tension while the shuttle is in the machine.

Having thus described my invention, the following is what I claim as new and desire to secure by Letters Patent—

The combination, with a shuttle-case having an excavation, F, of the latch D, having a hinge-plate, E, adjustable by a set-screw, G, within said excavation.

ROSWELL H. ST. JOHN.

Witnesses:

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