H. J. NOTT.

Sewing-Machine Shuttles.

No. 195,944. Patented Oct. 9, 1877.

Fig. 1.

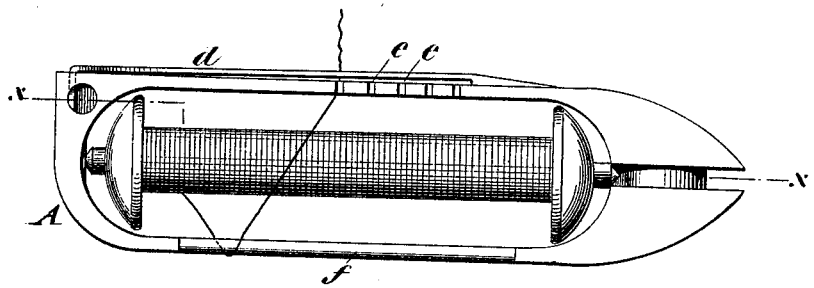


Fig. 2.

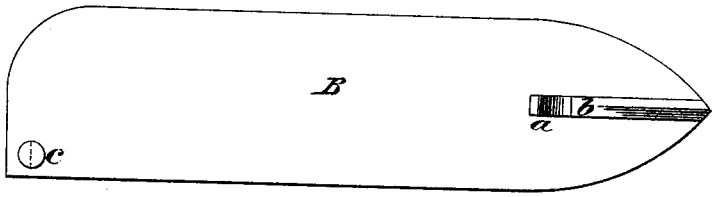
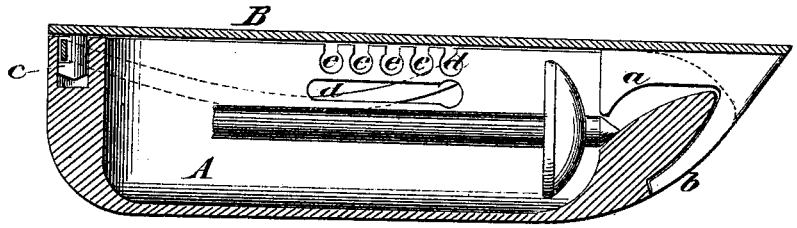


Fig. 3.



WITNESSES:

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HENRY J. NOTT, OF ST. MARY'S, TEXAS.

IMPROVEMENT IN SEWING-MACHINE SHUTTLES.

Specification forming part of Letters Patent No. **195,944**, dated October 9, 1877; application filed June 30, 1877.

To all whom it may concern:

Be it known that I, HENRY J. NOTT, of St. Mary's, in the county of Refugio and State of Texas, have invented a new and Improved Sewing-Machine Shuttle, of which the following is a specification:

Figure 1 is a side elevation of my improved shuttle with the cap removed. Fig. 2 is a detail view of the cap. Fig. 3 is a longitudinal section on line *x x* in Fig. 1.

Similar letters of reference indicate corresponding parts.

My invention consists in combining with a shuttle-case a cap having a hook and catch for securing it to the shuttle, and a projection that holds the bobbin in place.

The object of the invention is to simplify the operation of shifting bobbins and of threading sewing-machine shuttles.

In the drawing, A is the case or body of the shuttle, which is rounded at its point, and grooved internally to receive the projection *a*, and externally to receive the hook *b*, both of which project from the cap B, which is fitted to the face or open side of the shuttle-body, and is provided with a notched stud, *c*, that is engaged by the end of the check-spring *d*.

At the inner portion of the internal groove a bearing is formed for the end of the bobbin-spindle, which is retained by the projection *a*.

The holes *e* in the side of the shuttle, through which the thread passes from the bobbin to give it the required tension, are extended laterally to the edge of the shuttle-body, so that thread may be placed on them sidewise.

When the cap B is secured to the shuttle-body, the thread is prevented from escaping from the holes *e*. The edge of the shuttle-body opposite the longitudinal slot in the lower side of the shuttle is cut away at *f*, to permit the thread to pass when the cap B is in place.

The bobbin is put into the shuttle by first placing one end of its spindle in the heel of the shuttle, and then dropping the other end into the groove in the point of the shuttle. It is retained in place by the projection *a*, and revolves freely, being pressed by no springs, either upon its spindle or upon its sides. The tension is, therefore, at all times equal, being controlled entirely by the friction of the thread in the holes in the shuttle-body.

It will be seen that the arrangement of the holes *e* and cap B renders it a simple matter to thread the shuttle.

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

The cap B, having spring *d*, the projection *a*, hook *b*, and notched stud *c*, in combination with the shuttle-body A, having the grooves for receiving the projection *a* and hook *b*, substantially as shown and described.

HENRY JUNIUS NOTT, M. D.

Witnesses:

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