

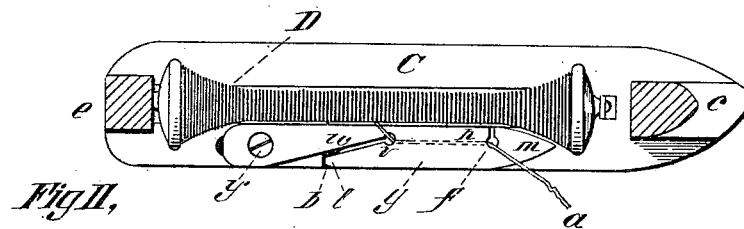
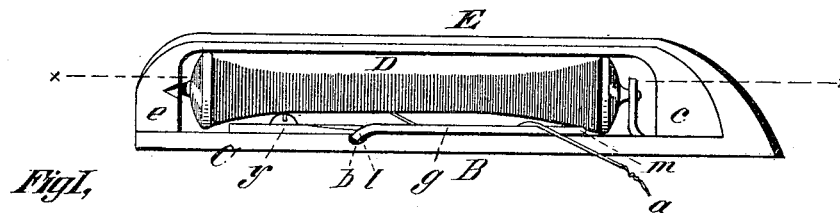
(No Model.)

S. B. BARTHOLOMEW.

SEWING MACHINE SHUTTLE.

No. 266,745.

Patented Oct. 31, 1882.



Witnesses,
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UNITED STATES PATENT OFFICE.

SAMUEL B. BARTHOLOMEW, OF SPRINGFIELD, MASSACHUSETTS.

SEWING-MACHINE SHUTTLE.

SPECIFICATION forming part of Letters Patent No. 266,745, dated October 31, 1882.

Application filed February 24, 1882. (No model.)

To all whom it may concern:

Be it known that I, SAMUEL B. BARTHOLOMEW, a citizen of the United States, residing at Springfield, in the county of Hampden and State of Massachusetts, have invented new and useful Improvements in Shuttles for Sewing-Machines, of which the following is a specification.

My invention relates to improvements in the construction of sewing-machine shuttles, having for their object increased facility in threading, the preservation of the thread from abrasion by the shuttle itself during the forming of the loop, and the reduction of the cost of manufacture of shuttles through the simplicity and fewness of its parts.

In the drawings, Figure I is an enlarged side view of a shuttle of my improved construction, Fig. II being a plan view of Fig. I in partial section.

The shuttle B, in place of having the bobbin D more or less incased upon one or both sides, belongs to that class in which the bobbin is retained between the face-plate C and bar E, which, together with the point *c* and butt *e*, form a frame, as shown, to permit the bobbin to be moved into its position in the frame in a line parallel to the surface of plate C. The tension-spring is formed of the plate *g*, securely bolted to the inner side of the face-plate at *y*, and is of configuration in plan as shown in Fig. II, to have the stop *v* with the channel *w* leading thereto at an angle from the edge of the spring *g*. The edge of the spring *g* coincides over its greater extent with the edge of the face-plate, but leaves it at angle approximating to that made by channel *w* to form the point *m*, from which point the other edge of the spring leads to channel *h*, conducting to stop *f*.

In the operation of threading, the end of the thread *a* is passed through the open side of the shuttle-frame and the bobbin D from the same direction sprung into its bearings in the frame. The thread is then pulled into stop *v*

through the inclined channel *w*, and in the same motion and at the same time carried upon the parallel incline to point *m*, from whence it is carried to stop *f*, being by the arrangement of the stops securely held in the proper position in the tension-spring. The whole time occupied in inserting the bobbin and placing the thread in the tension-spring is insignificant.

In order to form a mouth to the channel *w* without presenting any edge at that point which could possibly cut the thread while the loop was being formed, and one into which the thread is easily introduced from the direction it is brought in threading, I form in the face-plate C the transverse slot *b*, as shown in Fig. I, to have a vertical wall upon one side. Into the slot *b* is depressed the angular point *l* of the spring to have its edge protected by the wall from contact with the thread, except when conducted manually in threading, and when the depressed point easily leads the thread to the channel *w*. In practice I also slightly bevel or round the point *l*, as shown in plan in Fig. II, to make it impossible for the thread in moving over the edge of the face-plate to find any sharp edge to cut it.

Having described my invention, what I claim is—

The combination, in a sewing-machine shuttle, of a threading-channel near the outer edge of the face-plate, and on its inner face a tension-spring secured to the inner face of said plate, and having a threadway coinciding with said channel and a thread-stop therein overhanging one side of said slot, so as to form a free passage for the thread, a spring-point lying against said plate, and a thread-slot on the edge thereof opposite to said threadway, and a screw securing said spring to said plate, the parts being all arranged to operate substantially as set forth.

SAMUEL B. BARTHOLOMEW.

Witnesses:

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