W. GILLETT.

SEWING-MACHINE SHUTTLE.

No. 184,366. Patented Nov. 14, 1876.

Fig. 1.

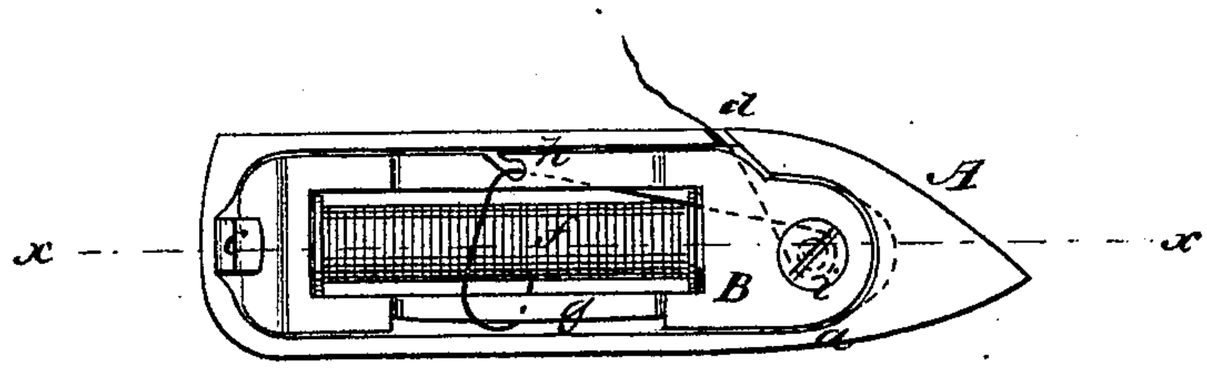
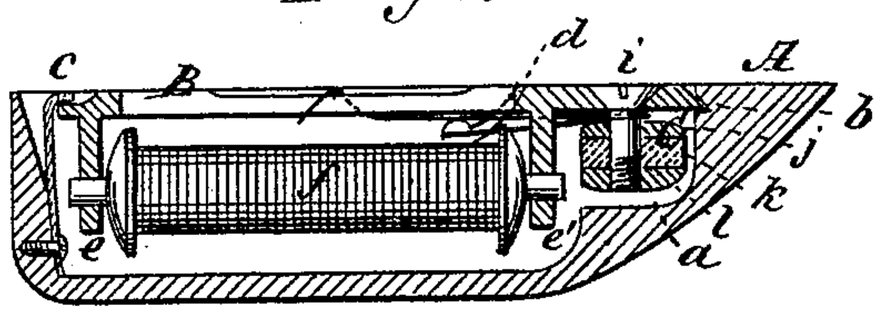


Fig. 2.



WITNESSES:

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WILLIAM GILLETT, OF MADISON, WISCONSIN.

IMPROVEMENT IN SEWING-MACHINE SHUTTLES.

Specification forming part of Letters Patent No. **184,366**, dated November 14, 1876; application filed September 9, 1876.

To all whom it may concern:

Be it known that I, WILLIAM GILLETT, of Madison, county of Dane, and State of Wisconsin, have invented a new and Improved Sewing-Machine Shuttle, of which the following is a specification:

Figure 1 is a side elevation. Fig. 2 is a longitudinal section on line *x x* in Fig. 1.

My invention relates to shuttles for sewing-machines; and it consists in a frame or support for the bobbin, which also carries the tension and thread slide, that can be readily attached to or removed from the shuttle, the object being to provide a reliable support for the bobbin, and an even and smooth tension on the thread.

Similar letters of reference indicate corresponding parts.

A is the body or shell of the shuttle, which is hollowed out at *a* to receive the tension, and is nicked at *b* to receive the end of the bobbin-frame; it is also provided at the heel with the catch-spring *c*.

A slot, *d*, is sawed from the side of the shuttle to the eye or thread-hole, to admit of the passing the thread into the eye without putting the end through.

B is a frame or support for the bobbin, which is retained in the shuttle by the nick *b* and spring *c*. Ears *e e'* are attached to the frame B and arranged to receive the journals of the bobbin *f*. The ear *e* is slotted to allow of slipping the bobbin out or in. The frame B is cut away and rounded at *g*, forming a thread-slide, and is drilled and slotted at *h* to receive the thread.

C is the device for producing tension in the thread, which consists of a screw, *i*, that passes through the frame B, and a plate of hardened steel, *j*, placed loosely on the screw, and a rubber spring, *k*, and nut *l*, with which the screw *i* engages.

The shuttle is threaded by passing the thread outward around the slide *g*, and across the face of the frame B and through the eye *h*, thence once around the screw *i*, between the plate *j* and the back of the frame B. The end of the frame is now put into the nick *b*, and the thread is slipped through the slit *d* into the shuttle-eye. The frame B is then placed in the shuttle, where it is retained by the spring *c*.

The advantages claimed for my invention are, that all the parts are retained firmly in their places, obviating much of the noise and wear that is usual in shuttle machines. The bobbin and tension, being together in the detachable frame, can be adjusted outside of the shuttle with greater facility than in those of ordinary construction.

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

The combination of body A, hollowed at *a*, nicked at *b*, provided with spring *c*, and having slit *d*; the frame B, having ears to receive bobbin-journals, rounded at *g* and slotted at *h*; and the tension device *i j k l*, all constructed and arranged as and for the purpose specified.

WILLIAM GILLETT.

Witnesses:

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