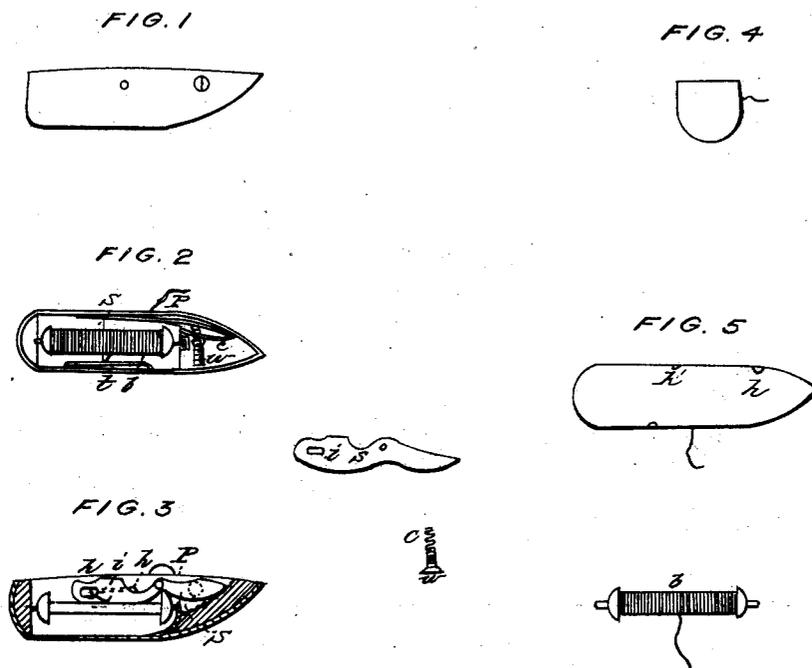


J. A. DAVIS.  
Sewing-Machine Shuttle.

No. 65,062.

Patented May 28, 1867.



WITNESSES:

John Sheldon  
G. A. Bagley

INVENTOR:

John A. Davis

United States Patent Office.

JOB A. DAVIS, OF WATERTOWN, NEW YORK

Letters Patent No. 65,062, dated May 28, 1867.

IMPROVEMENT IN SHUTTLES FOR SEWING MACHINES.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, JOB A. DAVIS, of Watertown, in the county of Jefferson, and State of New York, have invented certain new and useful improvements in Shuttles for Sewing Machines; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 is a side view of the shuttle.

Figure 2, a top view or plan.

Figure 3, a longitudinal section.

Figure 4, a front end view; and

Figure 5, a bottom view.

Similar letters of reference indicate corresponding parts in the several views.

This invention relates to the manner of regulating the tension of the thread.

To enable others skilled in the art to which my invention appertains to construct and operate the same, I will proceed to describe my improvement.

Instead of the usual method of passing the thread through several holes in the side of the shuttle, I substitute the longitudinal lever-pad *s*, as shown in figs. 2 and 3, held in place by the pivot *p* upon the side of the shuttle, and operated by the lateral screw *w* and coil spring *c* inserted in the front end of the shuttle.

The lever-pad is so formed that each end rests against the side of the shuttle, the front end acting as the short end of the lever, so that when the screw is forced against the spring it presses the long end of the lever against the side of the shuttle, consequently giving the desired tension to the thread. The thread passes from the bobbin up through the slot *t* and is carried over to the slot *i* in the rear end of the lever-pad *s*, and thence (in the direction of the dotted line in fig. 3) through the hole *h* in the side of the shuttle. The holes *h* and *i* are so placed that the thread passes between the lever-pad and the side of the shuttle, and is subjected to the pressure made by the action of the screw and coil spring upon the lever-pad, and thereby the tension regulated. The pressure upon the thread is increased or diminished by turning the screw *w*. The hole *h'* in the side of the shuttle opposite the slot *i* in the lever-pad is for the purpose of facilitating the threading of the shuttle.

Having thus described the construction and operation of my improvement, what I claim as my invention, and desire to secure by Letters Patent, is—

The lever-pad *s*, screw *w*, and coil spring *c*, when constructed and arranged substantially as and for the purposes set forth.

JOB A. DAVIS.

Witnesses:

G. A. BAGLEY,  
JOHN SHELDON.