

J.C. HERVEY. SHUTTLE.

No. 120,277.

Patented Oct. 24, 1871.

Fig. 1.

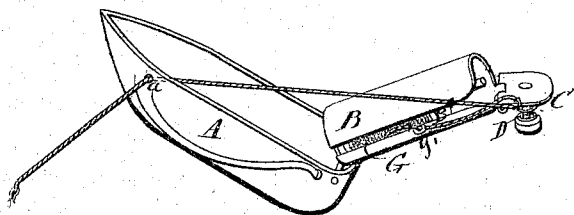


Fig. 3.

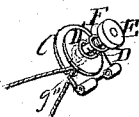
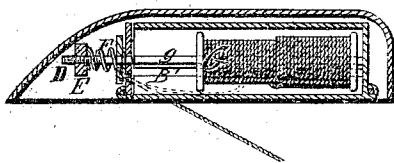


Fig. 2.



Witnesses.

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UNITED STATES PATENT OFFICE.

JAMES C. HERVEY, OF NEWPORT, KENTUCKY.

IMPROVEMENT IN SHUTTLES FOR SEWING-MACHINES.

Specification forming part of Letters Patent No. 120,277, dated October 24, 1871.

To all whom it may concern:

Be it known that I, JAMES C. HERVEY, of Newport, in the county of Campbell and State of Kentucky, have invented a new and valuable Improvement in Sewing-Machine Bobbins, &c.; and 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 annexed drawing making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawing is a perspective view of my invention. Fig. 2 is a vertical section of the same. Fig. 3 is a perspective view of hinged lid, hereinafter described.

This invention has relation to certain improvements in sewing-machine shuttle for the purpose of giving proper tension to the thread and allowing the more ready insertion or removal of the bobbin; and consists of the construction and novel arrangement of material parts, as hereinafter described.

In the accompanying drawing illustrating this invention, A represents a shuttle with a thread-hole, *a*, in one side; B, a cylinder, hinged within the shuttle, and furnished with a hinged cap, C, intended to close the forward end of it. D represents a threaded pin or fixed screw, projecting from the cap C; D', a loose washer or disk; E,

a nut, working on the pin D; and F, a small spring coiled around the pin between the nut and washer. G designates the spool placed within the cylinder B upon a spindle, *g*; B', a slot in the side of the cylinder, through which the thread passes from the spool, and thence through a loop, *g'*, above the slot; thence it passes through a slotted eye, *g''*, on one side of the lid C, and around the pin D underneath the disk D', and is brought through the hole *a*, in the manner clearly illustrated in the drawing. The tension of the thread is increased or lessened by tightening or loosening the disk D' by means of the nut E and spring F. The spool may be inserted or withdrawn by raising the cylinder.

I claim as my invention—

1. The lid C, washer D', spring F, pin D, and nut E, in combination with the cylinder B and shuttle A, substantially as specified.

2. The combination and arrangement of the hinged slotted cylinder B, spool G, hinged lid C, with eye *g''*, washer D', spring F, nut E, loop *g'*, and shuttle A, substantially as set forth.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

Witnesses: JAMES C. HERVEY.

D. D. KANE,
F. B. CURTIS.

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