

S. C. Mendenhall.
Shuttle.

N^o 49,643.

Patented Aug. 29, 1865.

Fig. 1.

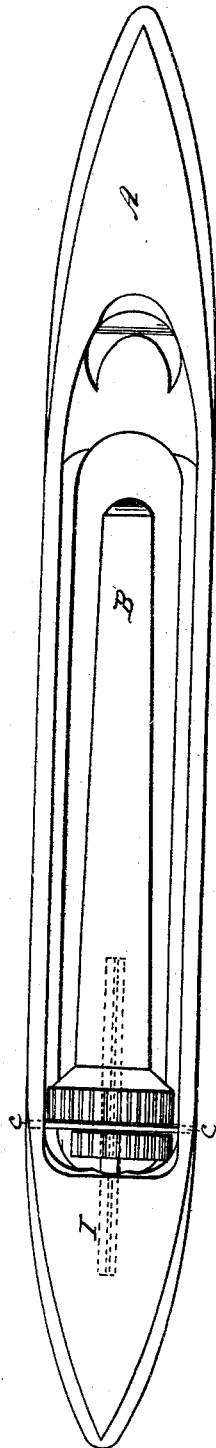


Fig. 3.

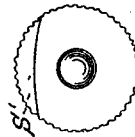
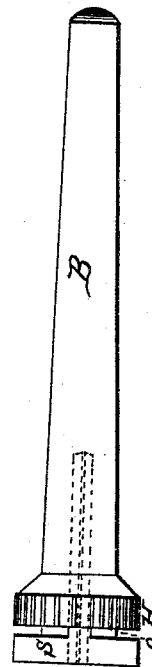


Fig. 2.



Witnesses.
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STEPHEN C. MENDENHALL, OF RICHMOND, INDIANA.

IMPROVEMENT IN MODE OF SECURING BOBBINS IN SHUTTLES.

Specification forming part of Letters Patent No. **49,643**, dated August 29, 1865.

To all whom it may concern:

Be it known that I, S. C. MENDENHALL, of Richmond, in the county of Wayne and State of Indiana, have made new and useful Improvements in the Mode of Fastening Bobbins in Shuttles; and I do hereby declare the following to be a full, clear, and exact description of the nature, construction, and operation of the same, sufficient to enable one skilled in the art to which it appertains to construct and use the same, reference being had to the accompanying drawings, which are made part of this specification, and in which—

Figure 1 is a plan view of the shuttle. Fig. 2 is a plan or top view of the bobbin. Fig. 3 is an end view of the bobbin-head.

Similar letters of reference denote the same parts.

The improvements in the shuttle and bobbin are as follows: first, the peculiar form of my bobbin-head; second, the manner of locking the bobbin in the shuttle.

A is the shuttle. B is the bobbin. C is a wire or rod which locks the bobbin in the shuttle, and the red dotted line I represents a slotted or spring spindle for the bobbin, and which, by reason of a slight outward spring tendency, serves to hold the bobbin with sufficient steadiness.

Fig. 2 shows the form of the bobbin. H is the head, which is turned with a groove, O, in it. S is that portion outside the groove a segment of which is cut away to the depth of the groove.

Fig. 3 is an end view of the bobbin-head; S' a segment of the same removed to the depth of the groove, and which may extend to any portion of the entire circumference of the bobbin-head.

I do not confine myself exclusively to the wire or rod C, as above described, as a plate could be secured on the top of the shuttle with a right-angled projection extending downward to the same depth as the wire or rod, and therefore answer the same purpose.

With the foregoing description of the shuttle and bobbin the mode of locking the bobbin in the shuttle is very simple. The bobbin is placed in the shuttle from the top side and pushed back on the spindle till the flat side S passes under the wire or rod C; then by giving the bobbin a slight turn with the thumb and finger it is effectually locked. The head of the bobbin is slightly corrugated, so as to facilitate the operation of turning it around in order to lock it, as above described.

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

The bobbin, having its head constructed as described, in combination with the wire or rod C in the shuttle, all as and for the purpose set forth.

STEPHEN C. MENDENHALL.

Witnesses:

C. M. SWANY,
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