T. L. Luders,

Bobbin.

No. 83,354. Patented Oct. 20. 1866.

Fig 1

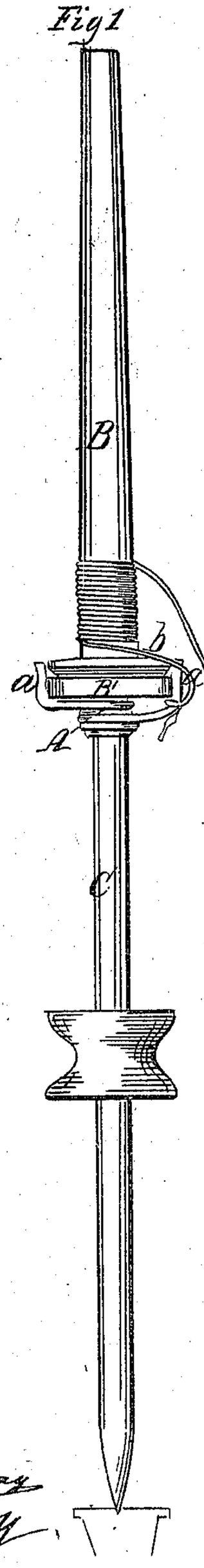


Fig 2.

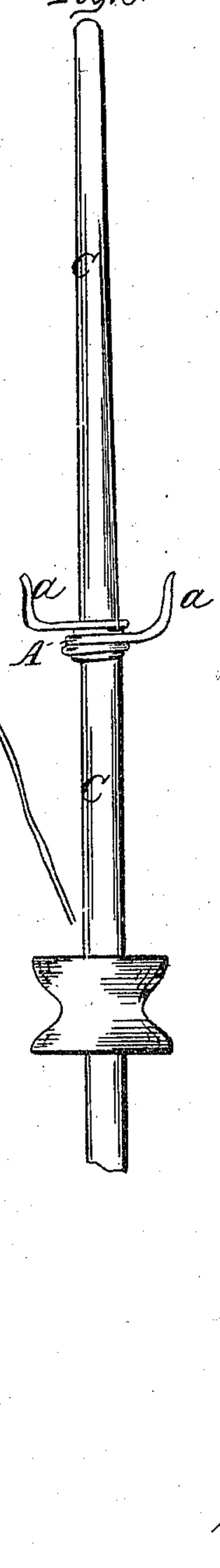
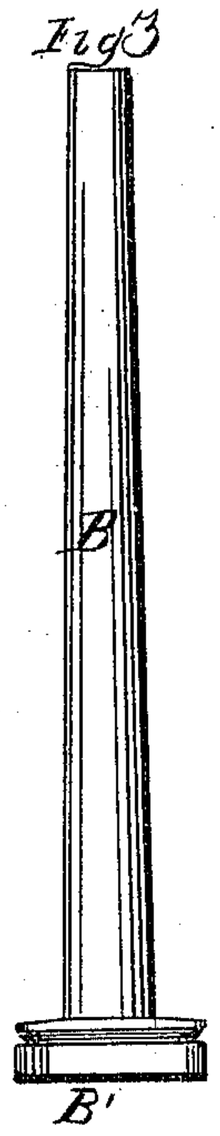


Fig 3



Witnesses;
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United States Patent Office.

THOMAS L. LUDERS, OF OLNEY, ILLINOIS.

Letters Patent No. 83,354, *dated October* 20, 1868

IMPROVEMENT IN BOBBIN AND THREAD-HOLDER FOR SPINNING-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, THOMAS L. LUDERS, of Olney, in the county of Richland, and State of Illinois, have invented a new and useful Bobbin and Thread-Holder for Spinning-Machines; and I do hereby declare the following to be a full, clear, and exact description of the same, sufficient to enable others skilled in the art to which my invention appertains to fully understand and use the same, reference being had to the accompanying drawings, which are made a part of this specification, and in which—

Figures 1 and 2 are side elevations of spinning-machine spindles, with my invention applied.

Figure 3 is an elevation of the bobbin detached.

Similar letters of reference indicate like parts in the three figures.

In drawing out and twisting a thread, yarn, or slubbing, it is customary to wrap the end of the same upon the spindle below the bobbin, which process is attended with loss and waste, by reason of the breaking of the wrapped end.

The object of this invention is to secure the bobbin in place upon the spindle, and fasten the end of the thread, yarn, or slubbing to said bobbin, without incurring the above-mentioned loss and waste; and to this end the invention consists in the application to the spindle of a peculiar bobbin and thread-holder, the same consisting of a piece of elastic wire, coiled tightly upon and so as to rotate with the spindle, and terminating in two salient arms, which grasp the bobbin, and cause it to rotate with the spindle, and which, at the same time, constitute a means for fastening or detaining the end of the thread or slubbing while being drawn out and twisted, and yet permit said detained end to be freely detached without breaking when the bobbin is taken off.

In the drawings—

A represents the bobbin and thread-holder, which is secured in proper position upon the spindle C to hold and support the bobbin B, as shown in fig. 1. The device A is a piece of elastic wire, wrapped sufficiently tight around the spindle to rotate therewith, and carry the bobbin with it. The arms *a a*, in which the wire terminates, are bent outward at the end, in order to readily admit the head B′ of the bobbin, and yet adapt said arms to tightly grasp said head, when the latter is fairly introduced between them. The end of the thread *b*, intended to be drawn out and twisted, may be applied to either of the elastic arms *a a*, in the manner shown in fig. 1, and the arm will hold the thread firmly until the bobbin is taken off the spindle, when the thread readily slips over the end of the arm *a*.

The superiority of this method over the old one will be obvious to those familiar with the business. It not only prevents waste, but enables the work to be performed with greater facility.

I am aware that a wire has been coiled around the spindle, with its upward-projecting end occupying a notch in the head of the bobbin, to cause the latter to rotate with the spindle; therefore I disclaim such device.

Having described my invention,

What I claim as new, and desire to secure by Letters Patent, is—

The coiled wire-holder A, having outwardly-curved arms *a a*, constructed as described, combined with the spindle and the bobbin, and serving as a holder for the bobbin and for the thread, as set forth.

To the above, I have signed my name, on the 1st day of May, 1868.

THOS. L. LUDERS.

Witnesses:

JAMES M. ARMSTRONG,

E. KITCHELL.