

B. H. JENKS.

Spindles for Spinning Frames.

No. 134,067.

Patented Dec. 17, 1872.

Fig. 1

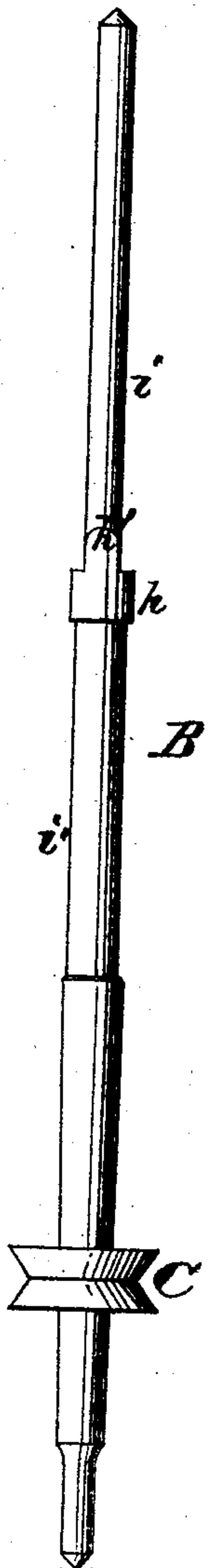


Fig. 2

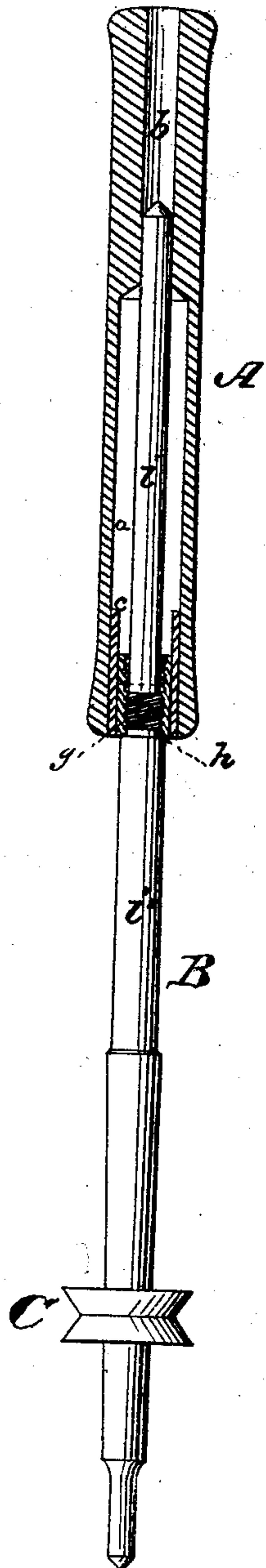


Fig. 3

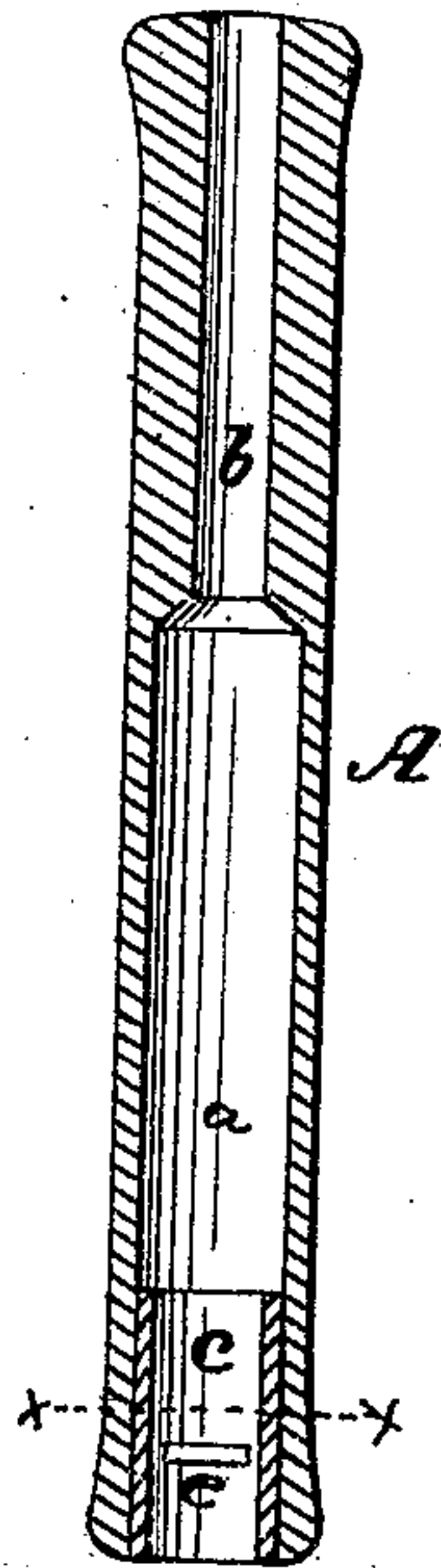


Fig. 4



Witnesses.  
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# UNITED STATES PATENT OFFICE.

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## IMPROVEMENT IN SPINDLES FOR SPINNING-FRAMES.

Specification forming part of Letters Patent No. 134,067, dated December 17, 1872.

*To all whom it may concern:*

Be it known that I, BARTON H. JENKS, of Bridesburg, in the county of Philadelphia and State of Pennsylvania, have invented an Improvement in Spindles; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing making part of this specification, in which—

Figure 1 is a view of the spindle with my improved nut applied to it; Fig. 2 is a similar view of the spindle, showing the bobbin in section; Fig. 3 is a diametrical section of the bobbin detached from the spindle; and Fig. 4 is a section taken transversely through the bobbin in the line *x x*.

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

The nature of my invention consists in a button applied on the spindle, for the purpose and in the manner hereinafter set forth.

The following description of my invention will enable others skilled in the art to understand it.

In the accompanying drawing, A represents the bobbin, which I construct in the following manner, to wit: I take a piece of wood and reduce it externally to the required diameter and shape. I then bore it out so as to leave a cylindrical chamber, *a*, two-thirds (more or less) of its length. I then bore a smaller hole, *b*, axially through the upper end of the bobbin, and insert into the lower end of the chamber *a* a cylindrical plug, *c*, of about an inch in length. Before inserting the plug *c* into the chamber *a* two metal cheeks, *e e*, are inserted

into it diametrically opposite each other, which leave a parallel space between them, as shown in Fig. 4. When the plug *c* is secured fast in its place the bobbin is completed and ready for use. The spindle B consists of a reduced upper stem, *i*, which is received into the hole *b* in the bobbin, and an enlarged lower portion, *i'*, on which latter is a pulley, C. At the junction of the enlarged and reduced portions *i i'* a left-hand screw is formed, on which a cylindrical nut, *h*, is applied, having two narrow tongues, *h'*, formed on its upper end. When the bobbin A is dropped on the spindle the cheeks *e e* will receive between them the tongues *h'*, thus positively engaging the bobbin with the spindle.

I am aware that spindles for bobbins have been flattened, and that bobbins which are made with and without plugs in their lower ends have been furnished with cheek-pieces or stop-pins for bearing against the flattened portion of the spindles; therefore I do not herein claim such bobbins and spindles. My invention, however, is applicable to bobbins which are or are not plugged, provided such bobbins are furnished with cheek-pieces or stop-pins.

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

The spindle B having the nut or button *h* applied to it, substantially as described.

BARTON H. JENKS.

Witnesses:

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