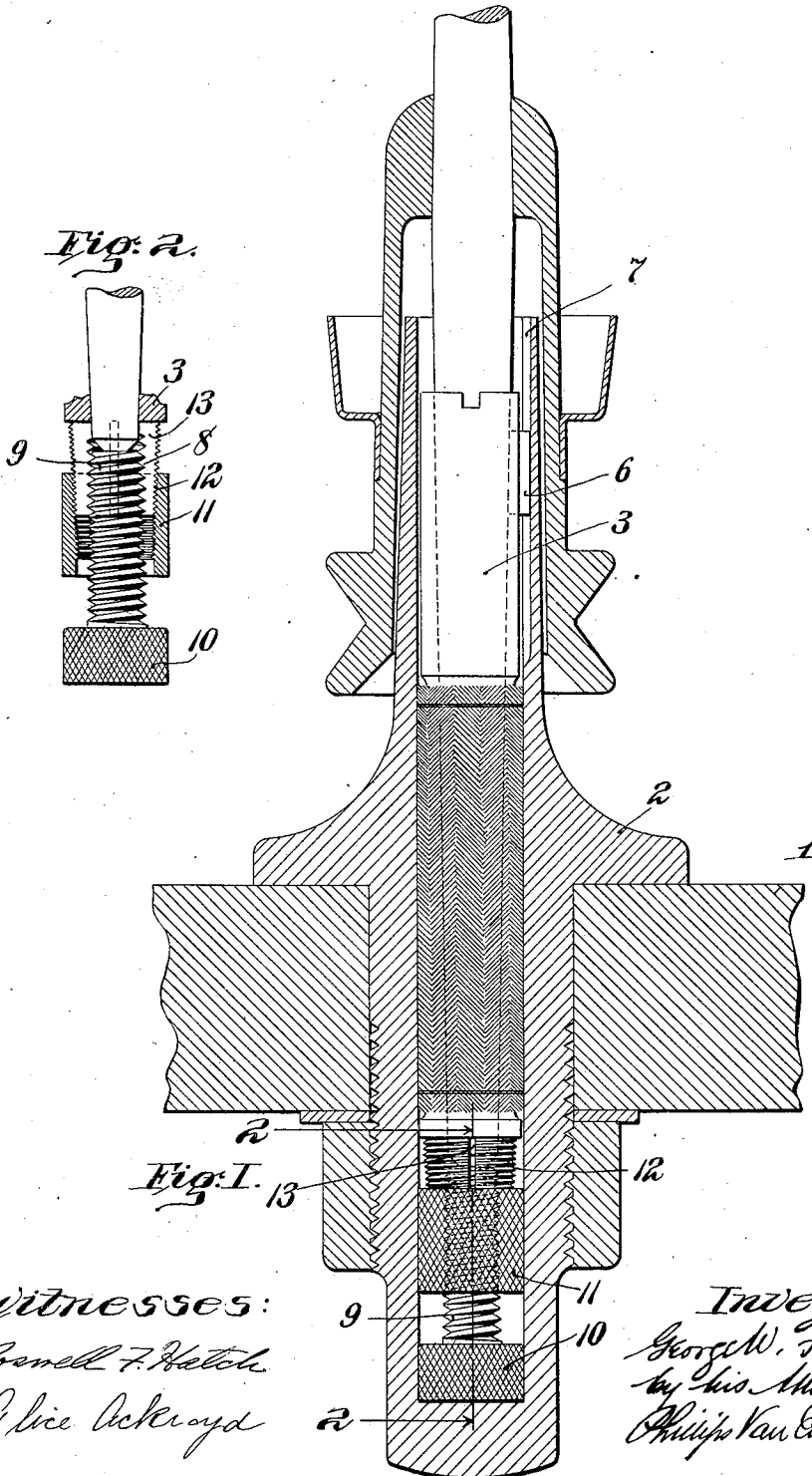


G. W. FARNHAM.
 SPINDLE SUPPORT FOR SPINNING, TWISTING, AND LIKE MACHINES.
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1,047,188.

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Witnesses:
 Roswell F. Hatch
 Alice Ackroyd

Inventor:
 George W. Farnham
 by his Attorney
 Philip Van Doren Fish

UNITED STATES PATENT OFFICE.

GEORGE W. FARNHAM, OF LOWELL, MASSACHUSETTS, ASSIGNOR TO LOWELL MACHINE SHOP, OF LOWELL, MASSACHUSETTS, A CORPORATION OF MASSACHUSETTS.

SPINDLE-SUPPORT FOR SPINNING, TWISTING, AND LIKE MACHINES.

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Specification of Letters Patent.

Patented Dec. 17, 1912.

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To all whom it may concern:

Be it known that I, GEORGE W. FARNHAM, a citizen of the United States, residing at Lowell, in the county of Middlesex and State of Massachusetts, have invented certain new and useful Improvements in Spindle-Supports for Spinning, Twisting, and the Like Machines, (Case No. 2;) and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

The present invention relates to an improvement in spindle supports for spinning, twisting and the like machines, and more particularly to spindle supports which comprise a bolster case, a bolster having a tapered bearing to receive the tapered pintle of the spindle, and a step for the pintle, and adjusting means for adjusting the relation of the step and bolster to bring the spindle pintle in proper relation with the bolster.

The object of the present invention is to reorganize and improve the construction of such spindle supports and to these ends the invention consists in the spindle support hereinafter described and particularly defined in the claims.

In the accompanying drawing illustrating the preferred form of the invention;—Figure 1 is a vertical section of a spindle and its supporting means; and Fig. 2 is a vertical section taken on the line 2—2 of Fig. 1.

In the drawing the spindle rail 1 carries the bolster case 2 in which the bolster 3 is supported, being held from rotation in the bolster case by a pin 6 which projects therefrom into a groove 7 in the inside of the bolster case. The lower end of the bolster is provided with a screw-threaded axial opening 8 to receive the screw-threaded end 9 of the step. The head 10 of the step is knurled to enable the hand readily and securely to grasp it for turning it in the lower end of the bolster. The step is secured in adjusted position in the bolster by means of a sleeve lock nut 11 which is interiorly screw-threaded on a taper and is adapted to be screwed on to the tapered

screw-threaded lower end of the bolster 3. This lower end 12 of the bolster is slotted at 13 with four radial slots for the purpose of rendering it elastic and therefore capable of being compressed by the sleeve lock nut when the latter is screwed up on it in order to clamp the resilient ends of the bolster on the screw-threaded end of the step 9. The surface of the sleeve lock nut is knurled to afford a secure grip for the fingers.

In use the proper adjustment of the step with relation to the bolster is secured by slightly loosening the sleeve lock nut and turning the step in the bolster until the proper running fit is secured between the spindle and the bolster and then the sleeve lock nut is screwed tightly on the end of the bolster and it is clamped tightly upon the step. In practice it may be convenient first to partially or wholly tighten the sleeve lock nut and then turn the step in the bolster until it has secured the proper fit between the spindle pin and the bolster, whereupon, if necessary, the sleeve lock nut may be set up tight. Either method may be adopted.

While the form of the invention illustrated in the drawings and described in the foregoing description constitutes the preferred form of the invention because of its simplicity and efficiency, it is to be understood that the invention may be embodied in other forms. For example, the screw threads in the interior of the lower end of the bolster case and on the end of the step may be omitted without departure from the invention viewed in its broader aspects.

What is claimed is:

1. A spindle support for spinning and the like machines having, in combination, a bolster case, and a bolster and step closely fitting but movable within the lower end of the bolster case, one of said members having an elastic portion frictionally engaging a portion of the other member to permit a relative movement of the bolster and step and provided with a tapered screw-threaded portion and a nut for clamping said elastic portion of one member upon the other member to hold the bolster and step in adjusted positions, substantially as described.
2. A spindle support for spinning and the

like machines having, in combination, a
bolster case, and a bolster and step having
screw-threaded connections for relative ad-
justment, the lower end of the bolster case
5 having an exteriorly tapered and threaded
elastic portion, and a sleeve lock nut en-
gaging said tapered screw-threaded por-

tion for clamping it upon the screw-thread-
ed end of the step, substantially as described.

GEORGE W. FARNHAM.

Witnesses:

IRVING D. KIMBALL,
HARRY L. PILKINGTON.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents,
Washington, D. C."
