G. W. FARNHAM.

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

APPLICATION FILED DEC. 24, 1910.

986,814. Patented Mar. 14, 1911.

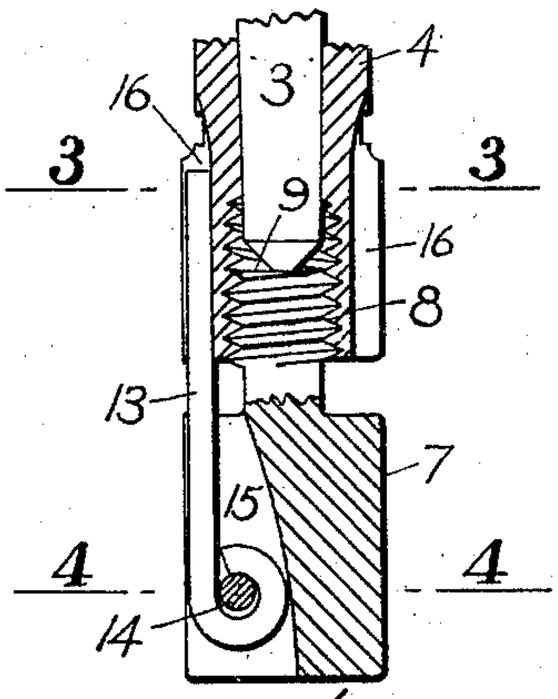

Fig. 2.

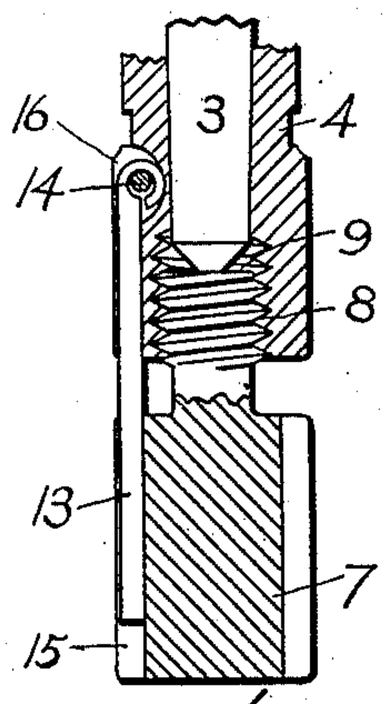

Fig. 5.

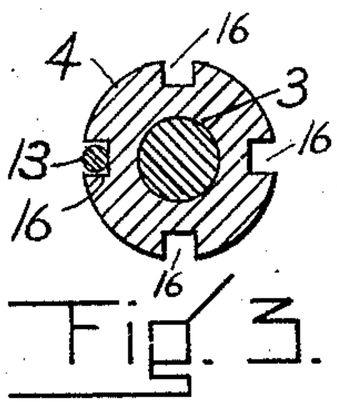

Fig. 3.

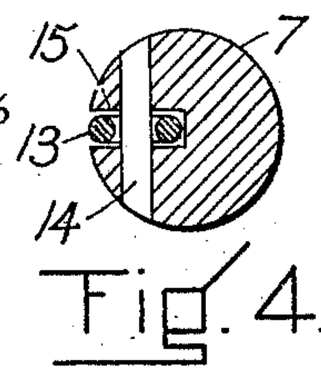

Fig. 4.

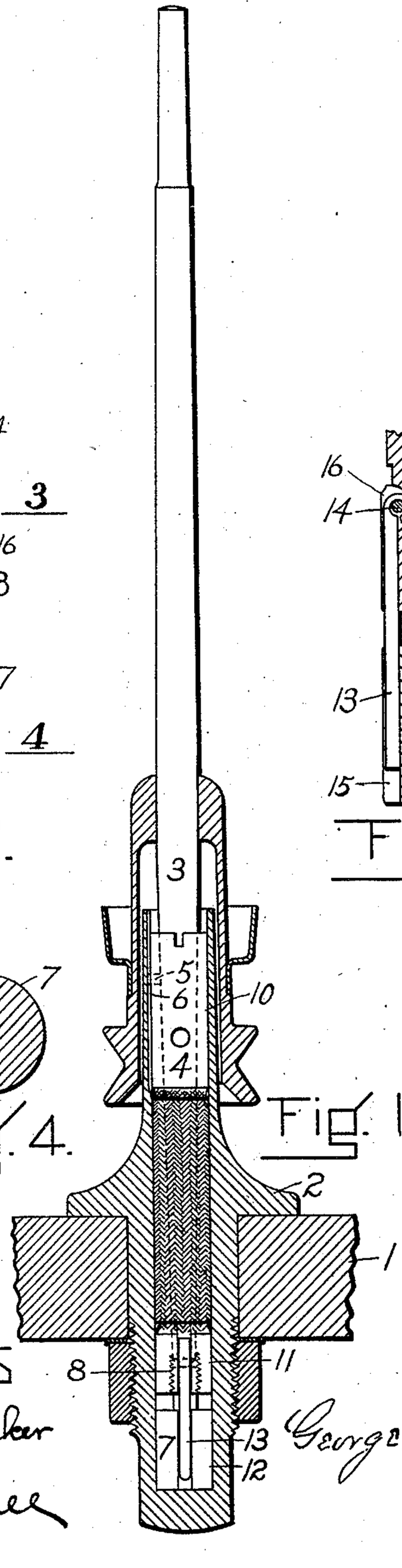

Fig. 1.

WITNESSES

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

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

986,814. Specification of Letters Patent. Patented Mar. 14, 1911.

Application filed December 24, 1910. Serial No. 599,193.

To all whom it may concern:

Be it known that I, GEORGE W. FARNHAM, of 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, of which the following description, with the accompanying drawings, is a specification.

My invention has relation to spindle-supports for spinning, twisting, and the like machines; that is, to spindle-supports of the class comprising a bolster-case, a bolster having a tapered interior to receive the tapered pintle of a spindle, and a step for the pintle, with the bolster and step in screw-threaded connection with each other for their relative adjustment and for the consequent relative adjustment of the pintle and the bolster.

The invention consists essentially in the combination with a bolster and step which are in screw-threaded connection with each other for relative adjustment, of a locking-finger pivotally carried by one to enter a notch in the other and thereby to prevent relative rotation of the bolster and step. When the bolster and step are held in a horizontal position with the locking-finger beneath, the locking-finger will fall out of the notch and permit the relative rotation of the bolster and step which is necessary for their relative adjustment.

In the drawing: Figure 1 is a vertical section of a spindle and its supporting means, with the invention in its preferred form; Fig. 2 is an enlarged longitudinal section of the lower part of the bolster and the step, with the locking-finger pivotally carried by the step and entering a notch in the bolster. Fig. 3 is a cross-section taken at the line 3—3 of Fig. 2; Fig. 4 is a cross-section taken at the line 4—4 of Fig. 2; Fig. 5 is an enlarged longitudinal section of the lower part of the bolster and the step, with the locking-finger pivotally carried by the bolster and entering a notch in the step.

Similar numerals refer to similar parts throughout the views.

In the drawing: 1 is a spindle-rail carrying a bolster-case 2; 3 is a spindle having a tapering pintle; 4 is a bolster, fitted loosely in the bolster-case and having an interior bearing for the pintle with the same taper as the pintle; 5 is a pin which projects from the bolster and enters a longitudinal groove 6 of rectangular cross-section in the bolster-case to positively prevent the rotation of the bolster within the bolster-case; 7 is a step in screw-threaded engagement with the bolster at 8 for their relative adjustment, and having a pintle-support at 9; 10 and 11 are bosses on the bolster con-axial with the bolster and 12 is a boss on the step con-axial with the step for checking the lateral movements of the bolster and step within the case. The features thus far mentioned are as usual.

In each of the figures the pivotally mounted locking-finger 13 is a feature of the invention. It is of wire, straight throughout most of its length, but curled to form an eye for the reception of a pivot-pin 14 at one end. It loosely fits the pivot-pin 14, the longitudinal notch 15 in the step, and the longitudinal notch 16 in the bolster and the finger will fall out of one of the notches and unlock the bolster and step when the bolster and step are horizontal with the locking-finger beneath. The bolster and step can then be relatively adjusted. When the step and the lower part of the bolster are locked and within the case they cannot be unlocked and their relative adjustment cannot be changed.

I claim:

1. A spindle-support for spinning and the like machines comprising in combination, a bolster-case, a bolster and step each screw-threaded for relative adjustment, and a locking-finger pivotally carried by the step for engaging the bolster and preventing rotation of the step relatively thereto.

2. A spindle-support for spinning and the like machines comprising in combination, a bolster-case, a bolster and step each screw-threaded for relative adjustment, the bolster having a series of longitudinal notches at its lower end, and a locking-finger pivotally secured to the step for entering one of the notches.

3. A spindle-support for spinning and the like machines comprising in combination, a bolster-case, a bolster and step each screw-threaded for relative adjustment, and a locking-finger pivotally carried by one to enter a notch in the other for preventing relative rotation of the bolster and step.

In testimony whereof, I affix my signature in the presence of two witnesses.

GEORGE W. FARNHAM.

Witnesses:
CHANNING WHITAKER,
IRVING D. KIMBALL.