(No Model.)

W. I. STIMPSON.

SPINDLE AND BEARING.

No. 601,846. Patented Apr. 5, 1898.

Fig. 4.

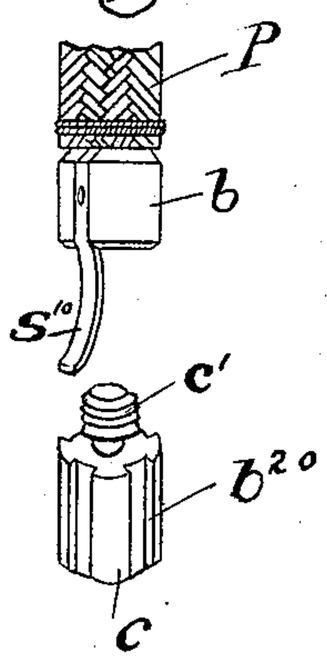

Fig. 1.

Fig. 2.

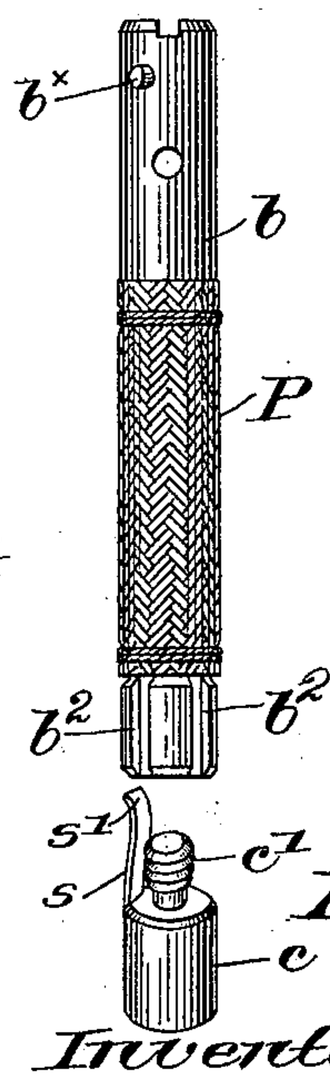

Fig. 3.

Witnesses:
A. G. Harrow
Edward F. Allen

Inventor:
Wallace I. Stimpson.
by Crosby Gregory. Attys.

UNITED STATES PATENT OFFICE.

WALLACE I. STIMPSON, OF MILFORD, MASSACHUSETTS, ASSIGNOR TO THE SAWYER SPINDLE COMPANY, OF BOSTON, MASSACHUSETTS.

SPINDLE AND BEARING.

SPECIFICATION forming part of Letters Patent No. 601,846, dated April 5, 1898.

Application filed October 24, 1896. Renewed November 13, 1897. Serial No. 658,437. (No model.)

To all whom it may concern:

Be it known that I, WALLACE I. STIMPSON, of Milford, county of Worcester, State of Massachusetts, have invented an Improvement in Spindles and Bearings, of which the following description, in connection with the accompanying drawings, is a specification, like letters and numerals on the drawings representing like parts.

This invention relates to that class of spinning-spindles wherein the spindle-step is made adjustable relatively to the bolster, into the tapering bore of which the tapering pintle of the spindle enters, the adjustability securing a uniform fit between the pintle and the bolster in order to insure steadiness of rotation and equal distribution of wear of the parts.

In this invention I have provided a simple and effective lock to prevent relative rotation of the bolster and step, the lock being easily released when the bolster and step are removed from the case for adjustment.

Figure 1 is a vertical sectional view of a spindle and bearing embodying my invention, the spindle being shown in elevation. Fig. 2 is a side elevation of the bolster. Fig. 3 is a perspective view of the step, and Fig. 4 is a view of the lower end of the bolster and the step with the locking device arranged reversely.

The rail A, bolster-case B, the bolster *b* therein, having a tapering bore to fit the tapering pintle S′ of the spindle S, the attaching-nut B′ for the bolster-case, the packing P, and the oiling device for the spindle are and may be of usual construction.

The bolster *b*, provided with the usual fibrous packing P, is threaded at its lower end at *b′*, Fig. 1, to engage the threaded stem or shank *c′* of the step *c*, rotation of the bolster relatively to the step regulating the fit of the pintle of the spindle in the bolster.

I have provided a simple lock between and to prevent relative rotation of the bolster and step, attached to one and adapted to detachably engage the other, and said lock is herein shown as a small and preferably flat spring-finger *s*, attached by a rivet 5 to a longitudinal notch in the step *c*, the free end of the finger being adapted to enter one of a series of longitudinal grooves or depressions b^2 on the exterior of the bolster.

The normal tension of the spring-finger *s* maintains it in engagement with the bolster and prevents rotation of the step relatively thereto, while adjustment can be readily effected by raising the free end of the spring from its retaining notch or groove and rotating the parts *b* and *c* to the desired extent, the finger slipping into another notch as soon as released.

To facilitate unlocking, the free end of the spring-finger *s* may be slightly bent outwardly, as at *s′*, if desired.

Obviously it would be a mere reversal of parts and no departure from the spirit and scope of my invention to permanently attach the locking-finger s^{10} to the bolster and provide the step with a series of retaining grooves or notches b^{20}, as in Fig. 4.

A projection or lug $b^{\times}$ on the exterior of the bolster is adapted to enter a groove 10 in the case B to prevent the bolster from turning in its case.

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

1. A bolster-case, a bolster held from rotation therein and having a tapering bore, a spindle having a tapering pintle to enter said bore, a step adjustably connected with the bolster by a screw-thread, and a spring locking-finger on the step adapted to engage the bolster and prevent rotation of the step relatively thereto, said finger having its free end bent out to facilitate unlocking, substantially as described.

2. A bolster-case, a bolster held from rotation therein and having a series of longitudinal notches at its lower end, a spindle to enter the bolster with a tapering fit, a step adjustably connected with the bolster by a screw-thread, and a yielding locking-finger secured to the step and adapted to enter one of the notches in the bolster, substantially as described.

3. A bolster-case, a spindle-bolster held from rotation therein, a step adjustably connected thereto, and a locking-finger carried by one to enter a notch in the other and thereby prevent relative rotation of the bolster and step, substantially as described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

WALLACE I. STIMPSON.

Witnesses:
GEO. OTIS DRAPER,
HERBERT S. MANLEY.