

(No Model.)

A. SCHEID.
SPINDLE.

No. 580,726.

Patented Apr. 13, 1897.

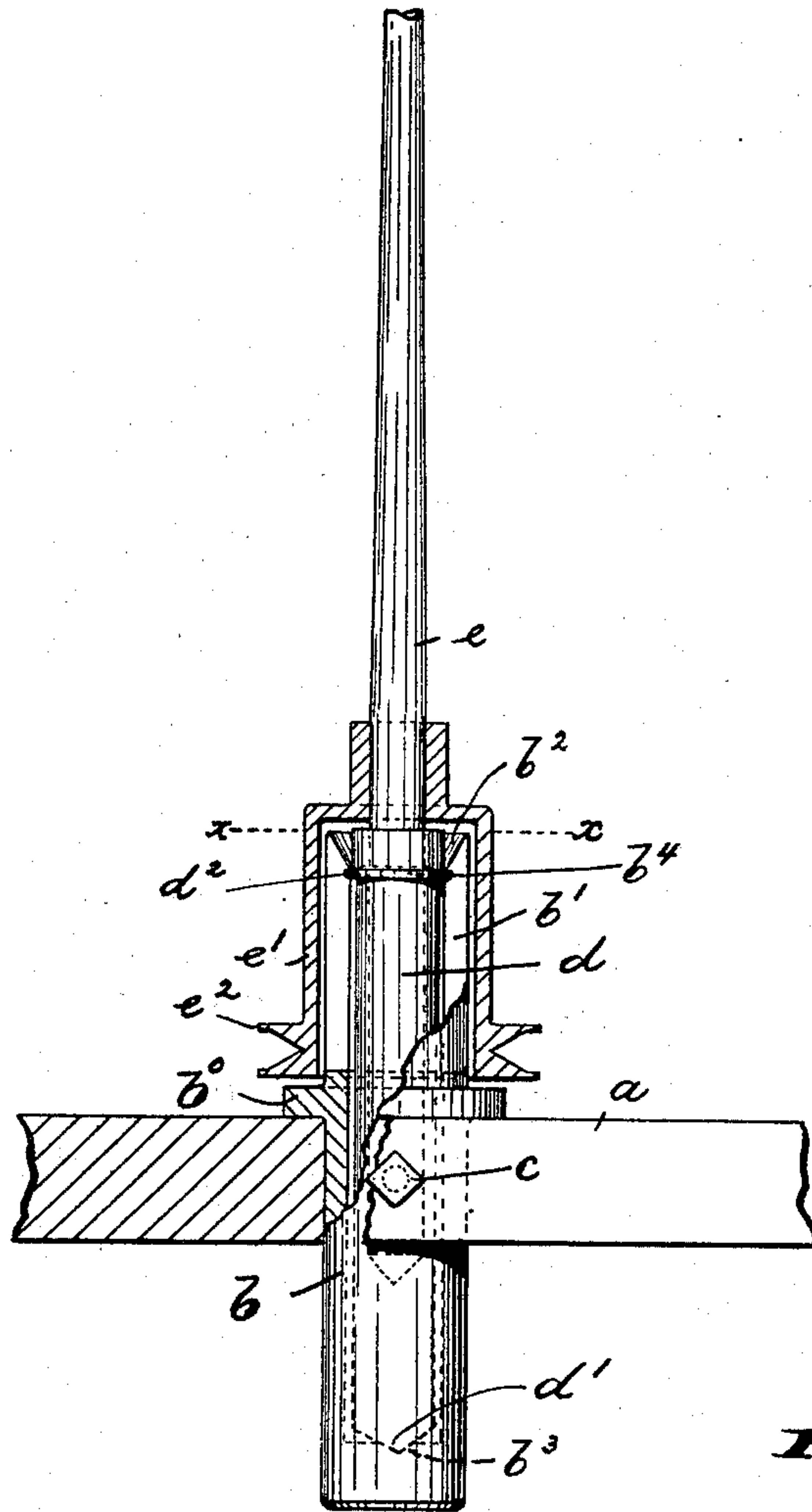


Fig. 1.

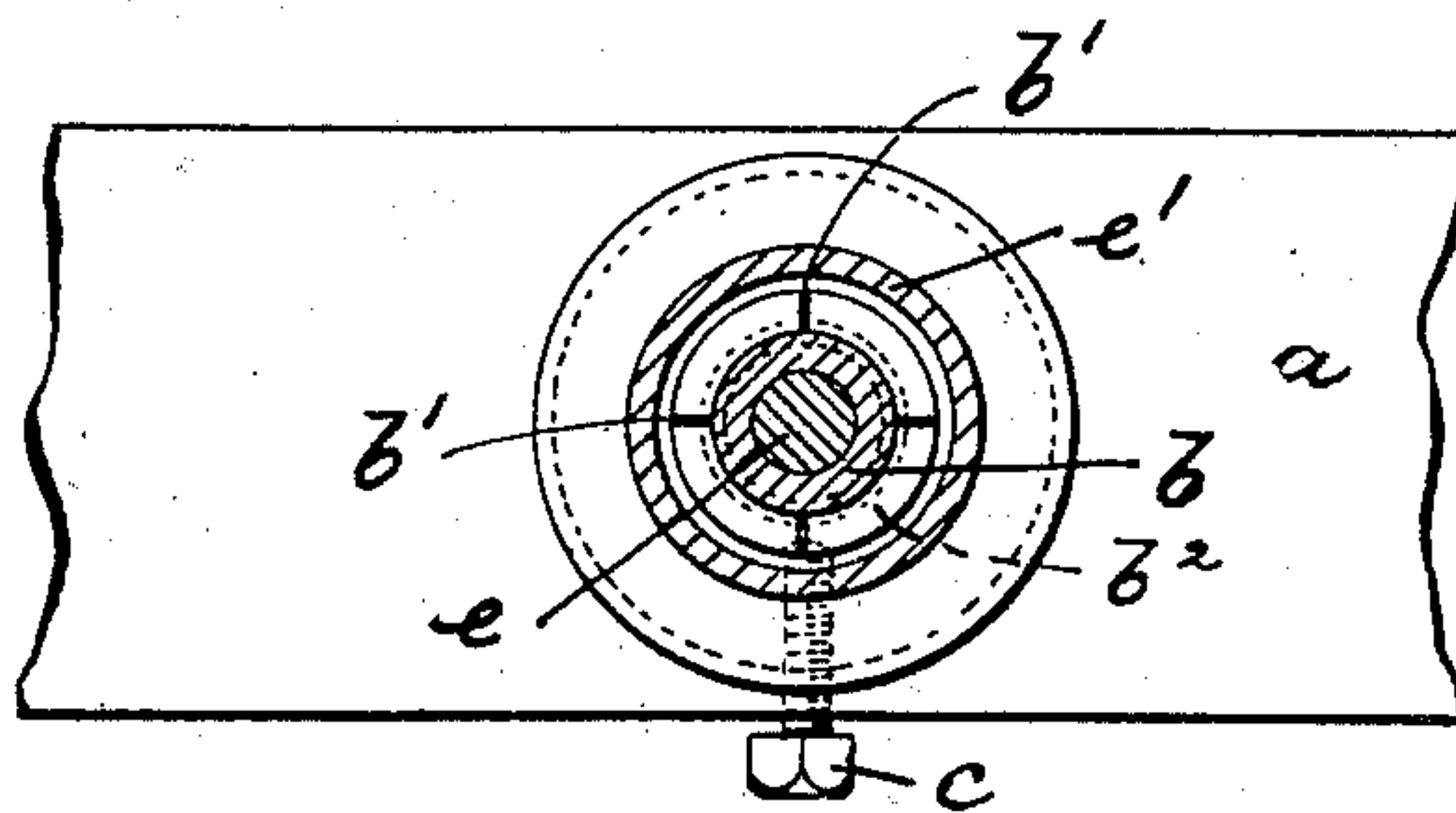


Fig. 2.

WITNESSES:

W. J. Bell
A. D. Ramsey

INVENTOR :

Adam Scheid

BY *Partner & Co* ATTY'S.

UNITED STATES PATENT OFFICE.

ADAM SCHEID, OF HARRISON, NEW JERSEY, ASSIGNOR TO THE DRAPER
COMPANY, OF PORTLAND, MAINE.

SPINDLE.

SPECIFICATION forming part of Letters Patent No. 580,726, dated April 13, 1897.

Application filed December 29, 1896. Serial No. 617,334. (No model.)

To all whom it may concern:

Be it known that I, ADAM SCHEID, a citizen of the United States, residing in Harrison, county of Hudson, and State of New Jersey, have invented certain new and useful Improvements in Spindles; 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, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

This invention relates to spinning-spindles for silk and other filaments, and especially to that class of spindles having a yielding movement, and therefore being capable of adjusting themselves to unbalanced loads.

The invention consists in the improved spinning-spindle support and in the combination and arrangement of the various parts thereof, substantially as will be hereinafter more fully described, and finally embodied in the clauses of the claim.

In the accompanying drawings, Figure 1 is a front elevation of a portion of a spindle-rail, on which is mounted a spinning-spindle by means of my improved support, certain portions of the latter and of the rail being broken away and others shown in section; and Fig. 2, a sectional view on the line xx of Fig. 1.

In said drawings, a represents the spindle-rail penetrated by the tube or casing b , adjustably secured thereto by means of the set-screw c and resting with its annular flange b^0 on the top of said rail. The upwardly-projecting portion of said tube or casing is provided with oppositely-arranged vertical elongated slots b^1 and with an outwardly-flaring mouth b^2 , adjoining an annular groove b^4 , while its lower inner portion is formed into a step-bearing b^3 , adapted to be engaged by the pointed or conical-shaped lower end of the spindle-tube d . The latter, which is of smaller diameter than the internal diameter of the tube or casing b , is provided with a ring or flange d^2 , adapted to fit into the annular groove b^4 of the said tube or casing and be thus held in normal vertical position, as will be manifest.

The spindle-tube b contains step and bolster bearing for the spindle e , which in the present case is provided with a sleeve e' and whirl e^2 , by means of which motion is imparted to the said spindle.

The spindle-tube d , which, as heretofore described, has its step-bearing in the lower inner portion of the tube or casing b , is allowed, on account of the slotted upwardly-extending portion of said casing, sufficient yielding motion to permit the spindle to adjust itself to an unbalanced load, the said slotted portion having sufficient spring-power or elasticity for the purpose of accomplishing the same.

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

1. The combination with the spindle-rail, of a tube or casing arranged in said rail and having its upwardly-projecting portion provided with a series of elongated slots, a tube loosely arranged within said casing and provided with an annular ring or flange in engagement with the slotted portion thereof, and a whirl-driven spindle in said tube or casing, all said parts, substantially as described.

2. The combination with the spindle-rail, of a tube or casing penetrating said rail and adjustably secured therein and provided in its upwardly-projecting portion with a series of elongated slots and terminating in an outwardly-flaring mount adjoining an annular groove in the inner upper portion of said tube or casing, a tube arranged in said tube or casing and having its step-bearing in the lower inner portion thereof and being of smaller diameter than the internal diameter of the latter, and provided with an annular ring or flange engaging the annular groove in said tube or casing, and a whirl-driven spindle in said tube, all said parts, substantially as described.

In testimony that I claim the foregoing I have hereunto set my hand this 17th day of December, 1896.

ADAM SCHEID.

Witnesses:

ALFRED GARTNER,
WM. D. BELL.