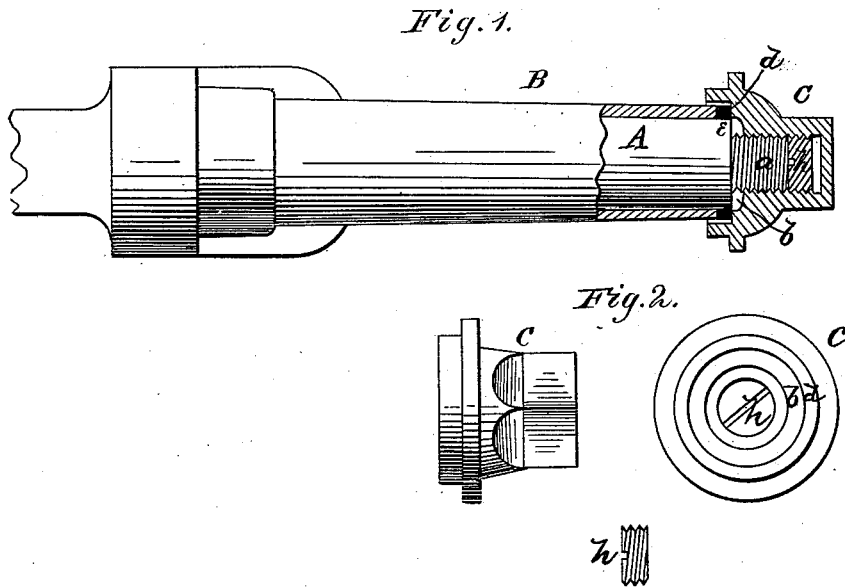


O. B. THOMPSON.  
ADJUSTABLE AXLE-NUT.

No. 192,309.

Patented June 19, 1877.



WITNESSES

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# UNITED STATES PATENT OFFICE.

ORRIN B. THOMPSON, OF JERSEY, OHIO.

## IMPROVEMENT IN ADJUSTABLE AXLE-NUTS.

Specification forming part of Letters Patent No. **192,309**, dated June 19, 1877; application filed April 12, 1877.

*To all whom it may concern:*

Be it known that I, ORRIN B. THOMPSON, of Jersey, in the county of Licking, and in the State of Ohio, have invented certain new and useful Improvements in Adjustable Axle-Nut; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, making a part of this specification.

The nature of my invention consists in the construction and arrangement of an adjustable axle-nut for carriage-axles, as will be hereinafter more fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawing, in which—

Figure 1 is a side view of a wheel-spindle with a longitudinal section of the nut on the end thereof. Fig. 2 shows detailed views of the nut.

A represents an ordinary wheel-spindle, with axle-box B and the screw *a* projecting from the end of the spindle.

C represents the axle-nut, made in the usual form, with interior screw-threads, and closed at its outer end. Within the nut C, around the screw-hole at the inner end of the nut, is formed a recess, *b*, which allows the wearing-surface *d* of the nut to pass beyond the shoul-

der *e* near the screw *a* of the spindle, said wearing-surface *d* bearing solely against the end of the axle-box, or against a washer placed around the spindle at the end of the box.

In the bottom of the screw-socket of the nut C is placed a set-screw, *h*, which screws in the same threads as the spindle-screw *a*. This set-screw is wholly inclosed in the nut, and forms an adjustable bearing for the nut upon the end of the spindle.

By this invention the rattling noise of boxes and spindles is prevented, thereby increasing the durability of the same; and it dispenses with washers, if desirable, by an easy adjustment of the nut upon the spindle to any desired position or thickness of washer.

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

The combination, with the spindle A having screw-tenon *a*, of the closed cap or axle-nut C screwed on said tenon, and the set-screw *h* screwed into said nut in the same threads, and completely inclosed within the nut, substantially as and for the purposes herein set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 5th day of April, 1877.

ORRIN B. THOMPSON.

Witnesses:

EDW. D. CLARKE,  
OLIVE CLARKE,