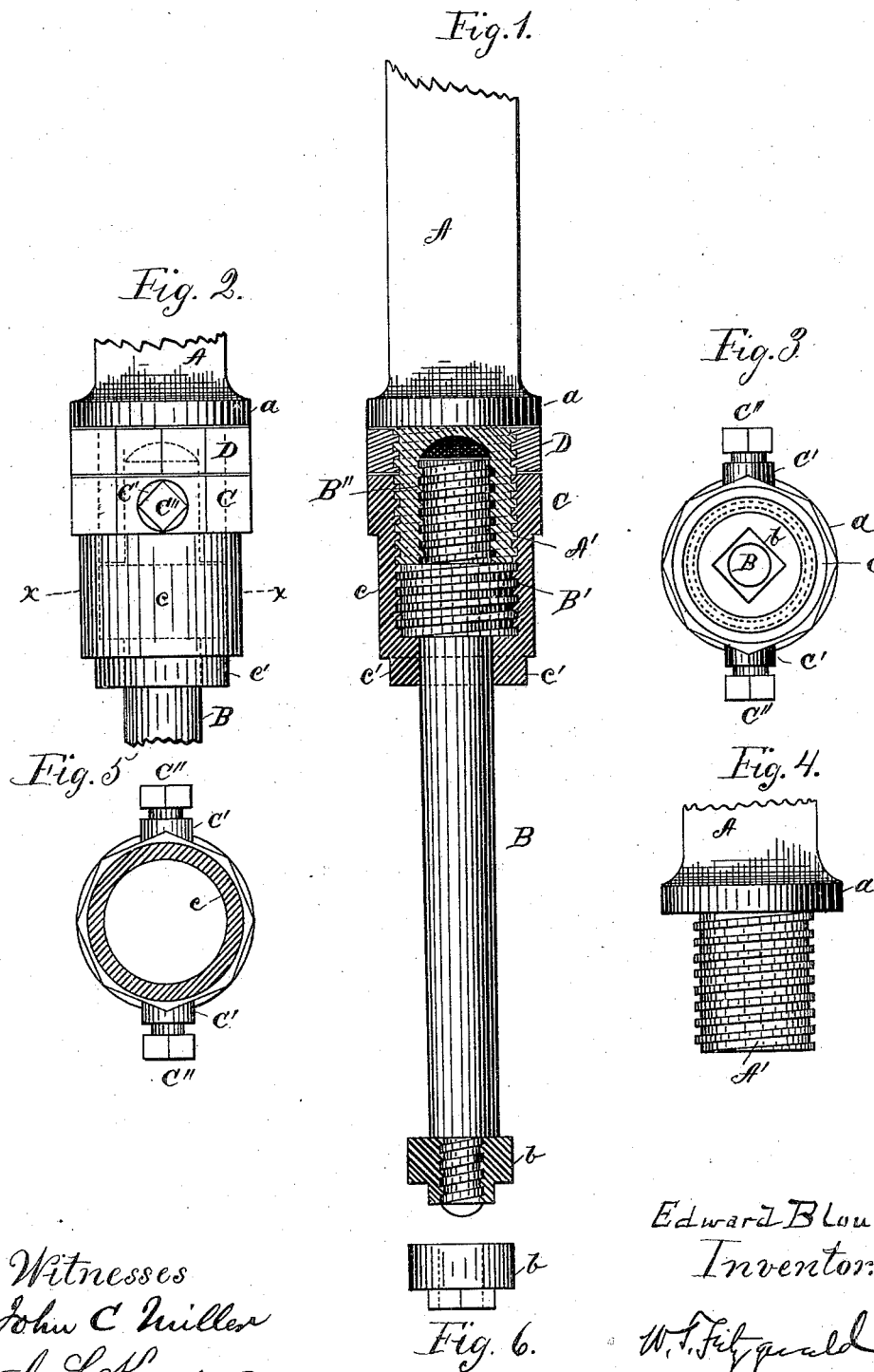


(No Model.)

E. BLOUNT.
CARRIAGE AXLE.

No. 306,214.

Patented Oct. 7, 1884.



Witnesses
John C Miller
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UNITED STATES PATENT OFFICE.

EDWARD BLOUNT, OF SMITH'S MILLS, SOUTH CAROLINA.

CARRIAGE-AXLE.

SPECIFICATION forming part of Letters Patent No. 306,214, dated October 7, 1884.

Application filed April 8, 1884. (No model.)

To all whom it may concern:

Be it known that I, EDWARD BLOUNT, a citizen of the United States, residing at Smith's Mills, in the county of Williamsburg and State of South Carolina, have invented certain new and useful Improvements in Axles; 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.

This improvement relates to axles that are made separately from and affixed to the main axle-trees, and has for its object a more practical and strongly constructed axle than others of its class, that can also be made to equalize or compensate for wear by adjustment of some of the parts. These results are attained by the mechanism illustrated in the drawings herewith filed as part hereof, in which the same letters of reference denote the same parts in all the views.

Figure 1 is a view of my improvement, partly in section. Fig. 2 is a top view, part broken away. Fig. 3 is a front end elevation. Fig. 4 is a portion of the main axle-tree. Fig. 5 is a vertical section of one of the parts detached. Fig. 6 is a view of one of the minor parts.

A represents an axle-tree proper, provided with a shoulder, *a*, and a hollow or cylindrical screw-threaded extension, *A'*, as specially illustrated in Fig. 4, and which is provided with a female screw-thread within the recess thereof.

B represents the wheel-axle journal, which is provided with a screw-threaded shoulder, *B'*, and a screw-threaded reduced extension, *B''*, corresponding to the female thread within the hollow extension *A'* of the axle-tree A.

C c c' represent a sleeve for strengthening the joint formed by the axle-journal and axle-tree, and is provided with an inner thread corresponding to the thread and the shoulder *B'* of the axle-journal B, and the thread on the extension *A'* of the axle A.

D is a lock-nut for locking the position of the sleeve, which at its enlargement *C* is made of octagonal form for convenience of adjust-

ment. The lock-nut D is of similar form. The sleeve is reduced at *c* for the purpose of entering the usual recess in the boxing of the wheel and being set to bear against the shoulder thereof, and thereby prevent unnecessary and injurious lateral motion of the wheel. The sleeve is provided with recessed and screw-threaded projections *C'*, for the reception of set-screws *C''* for additionally securing the sleeve in any desired position.

b represents the usual lock-nut at the end of the axle.

All the different threads should be made to screw up in the same direction on the same side, and on each side the direction of the threads must be arranged according to the forward motion of the vehicle. By setting a washer of suitable thickness between the lock-nut and the sleeve, or between the lock-nut and the shoulder of the axle-tree A, the set-screws *C''* may be dispensed with. By this construction the axle-journal can be made of the best material, while the axle-tree may be made of ordinary metal, and in addition to thus obtaining an axle of superior quality the same can be easily removed and conveniently replaced by another should the axle get bent or broken, which is frequently the case from various causes.

Having explained the construction and operation of my improvement, what I claim as new, and desire to secure by Letters Patent, is—

The axle journal or spindle B, having screw-threaded shoulder *B'* and reduced screw-threaded extension *B''*, in combination with the axle-tree A, having shoulder *a* and hollow screw-threaded extension *A'*, the sleeve *C c c'*, and the lock-nut D, all constructed and arranged to operate substantially as specified, for the purpose set forth.

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

EDWARD BLOUNT.

Witnesses:

S. M. B. SCOTT,
S. M. PICKENS.