

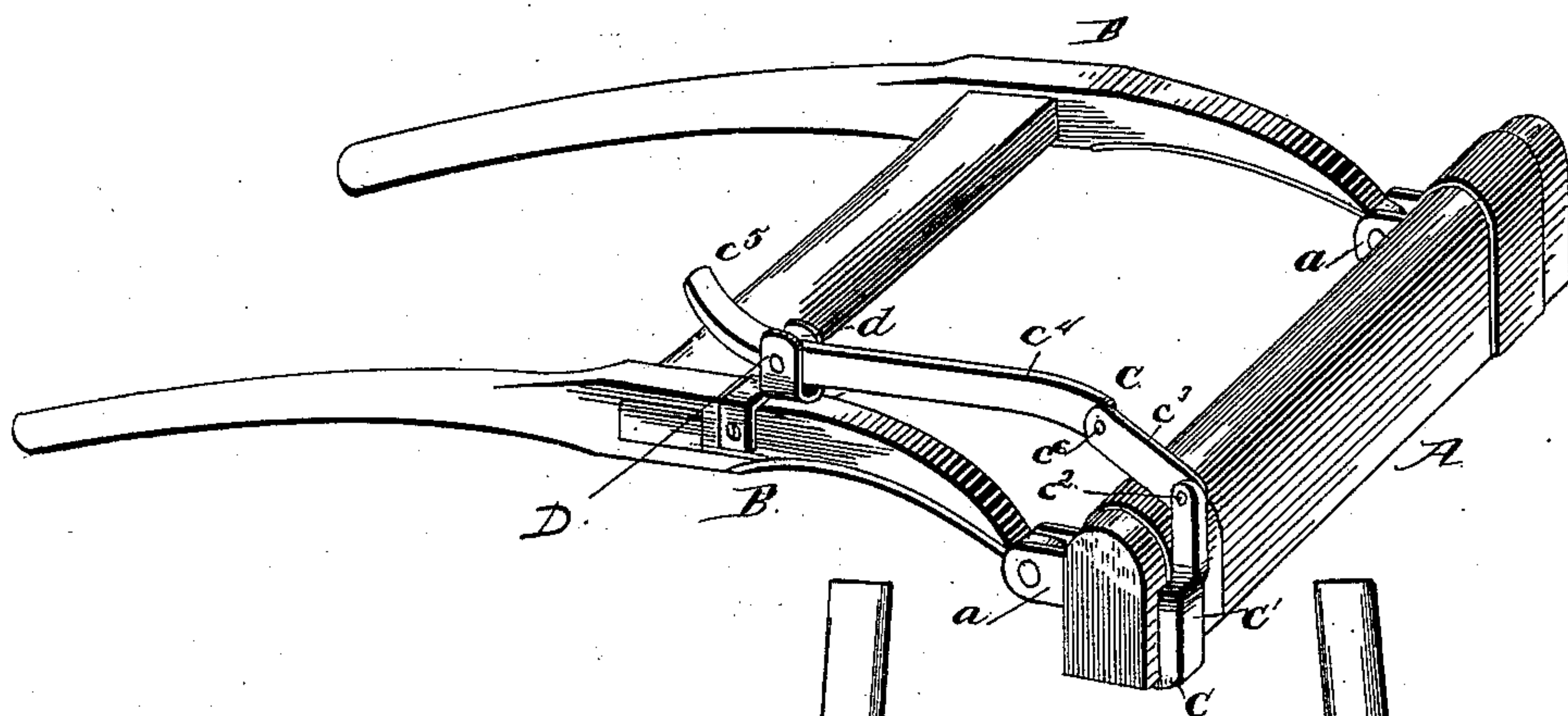
(No Model.)

T. A. KNOX.  
SHAFT SUPPORT.

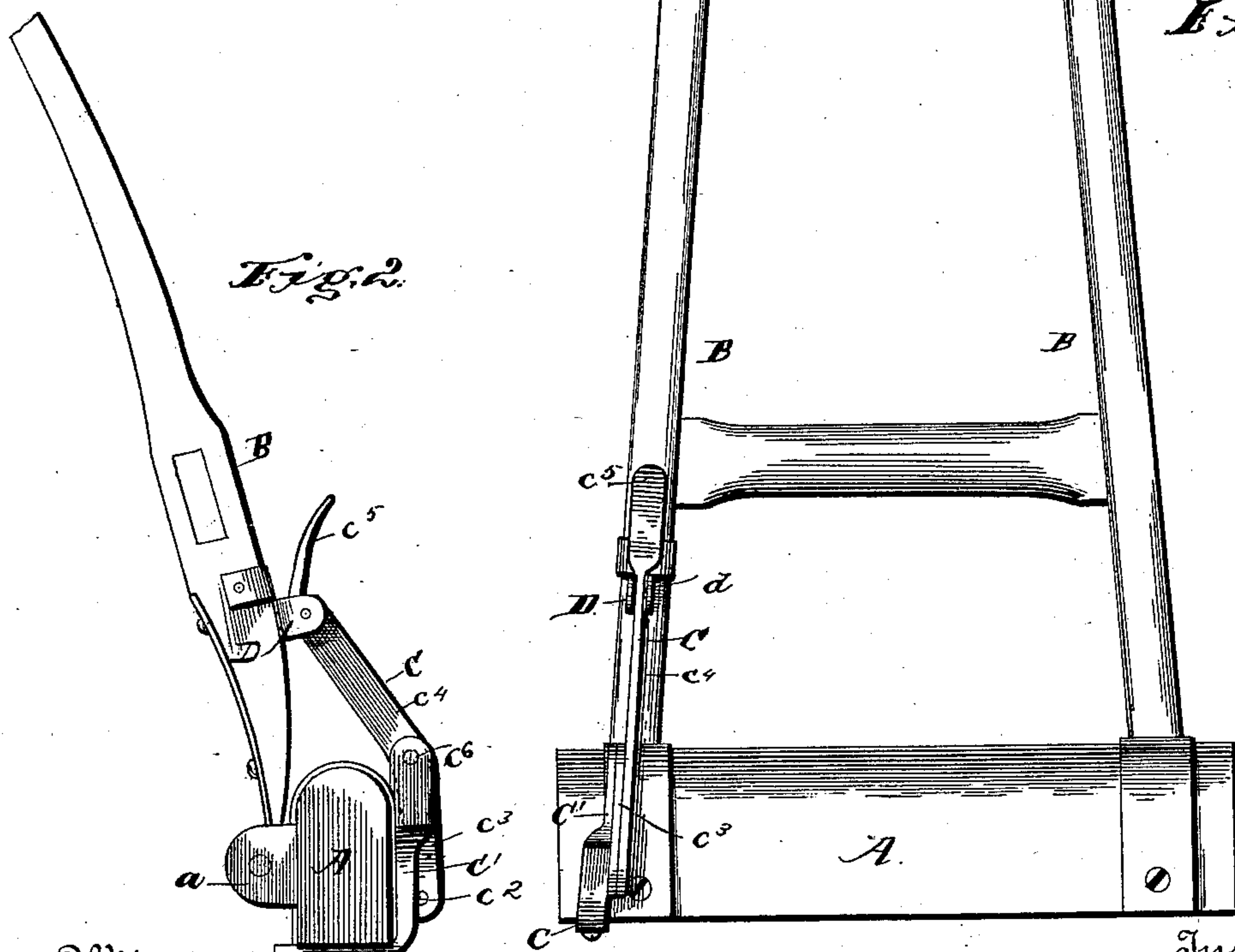
No. 365,310.

Patented June 21, 1887.

*Fig. 1.*



*Fig. 3.*



Witnesses  
*Geo. W. W. W.*  
*John H. Siggers*

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*T. A. Knox*  
By *his* Attorneys,  
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# UNITED STATES PATENT OFFICE.

THOMAS A. KNOX, OF CARROLLTON, KENTUCKY.

## SHAFT-SUPPORT.

SPECIFICATION forming part of Letters Patent No. 365,310, dated June 21, 1887.

Application filed April 20, 1887. Serial No. 235,581. (No model.)

*To all whom it may concern:*

Be it known that I, THOMAS A. KNOX, a citizen of the United States, residing at Carrollton, in the county of Carroll and State of Kentucky, have invented a new and useful Improvement in Shaft-Supports, of which the following is a specification.

My invention relates to shaft-supports; and it consists in the novel construction and arrangement of the parts of the same, which will be more fully hereinafter described, and pointed out in the claims.

The object of my invention is to provide a shaft-support for use in connection with buggies and other vehicles which is simple and effective in its construction and operation, strong and durable, easily handled and readily understood, positive in its ultimate result, readily applied, and cheaply manufactured. I attain this object by the device illustrated in the accompanying drawings, wherein like letters of reference indicate similar parts in the several views, and in which—

Figure 1 is a perspective view of a portion of an axle-tree with the shafts in connection therewith and my improvement mounted in connection with the said parts. Fig. 2 is a side view with the shafts raised. Fig. 3 is a rear elevation of the construction shown in Fig. 2, the shafts still being raised.

A indicates a portion of an axle-tree having thill clips and couplings *a a*, to which the shafts B B are secured in any manner preferred. A metallic angle-plate, *c*, is secured to the underside of the axle-tree A at one portion thereof, and projecting upwardly in the rear of the said axle-tree, and is provided with a plain extension-plate, *c'*, which is in turn provided with an aperture for the reception of a pivot-pin, *c²*, passing through said aperture and through a similar aperture formed in the end of a section or short arm, *c³*, of a toggle-lever, C, the other section or arm, *c⁴*, of said lever being longer and projecting over onto one of the shafts B, and is pivotally mounted in the upper bifurcated end, *d*, of a screw-eye, D, which is secured to said shaft B. The section *c⁴* of the said toggle-lever C projects through the bifurcated end *d* of the screw-eye D, and is formed into an operating-handle, *c⁵*. The two sections *c³* and *c⁴* of the said lever C are pivotally connected at the point *c⁶*, so that they may be folded or lapped, as may be desired. When the shafts B B are

raised, as shown in Fig. 2, the short section or arm *c³* of the lever C will fold down against the angle-plate *c* and its extension *c'* in a vertical position, as shown, drawing the arm *c⁴* down therewith. The arm *c⁴* is slightly curved, to more readily facilitate the action of the lever entire, and when the arm *c³* is folded down, as shown in Fig. 2, the said lever C will be locked and the shafts B held in an elevated position. The locking of the lever C in the elevated position shown in Figs. 2 and 3 is due to the fact that the short arm *c³* is thrown below and past the center of its fulcrum or pivot *c²*, and when the said short arm *c³* has assumed said position the arm *c⁴* will be drawing said arm *c³* forward against the axle-tree and can be only released by pressing on the operating-handle *c⁵*, which releases the two arms from their locked position and allows the shafts B to be drawn downward for use.

The utility, novelty, and adaptability of my improved attachment are obvious, and need not be further enlarged upon herein. It is obvious, also, that the construction shown could be slightly varied without in the least departing from the nature and principle of my invention.

Having thus described my invention, I claim—

1. In a shaft-support, the combination, with the axle-tree A and shafts B, of the toggle-lever C, the angle-plate *c*, and the screw-eye D, substantially as described.

2. In a shaft-support, the combination, with the axle-tree A and the shafts B, of the toggle-lever C, constructed with a long arm, *c⁴*, and a short arm, *c³*, pivotally connected, an angle-plate, *c*, having an extension, *c'*, secured to said axle-tree A, and to which the short lever *c³* is pivoted, an operating-handle, *c⁵*, projecting therefrom, substantially as described.

3. In a shaft-support, the combination, with the axle-tree A, of the angle-plate *c*, having the vertical projection *c'*, the toggle-lever C, having the turned-up end *c⁵*, the shafts B, and the screw D, substantially as described.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

THOMAS A. KNOX.

Witnesses:

JAMES W. LEWIS,  
M. R. FISHER.