(No Model.)

J. & P. HERRMANN.

WAGON AXLE.

No. 287,675. Patented Oct. 30, 1883.

Fig. 1

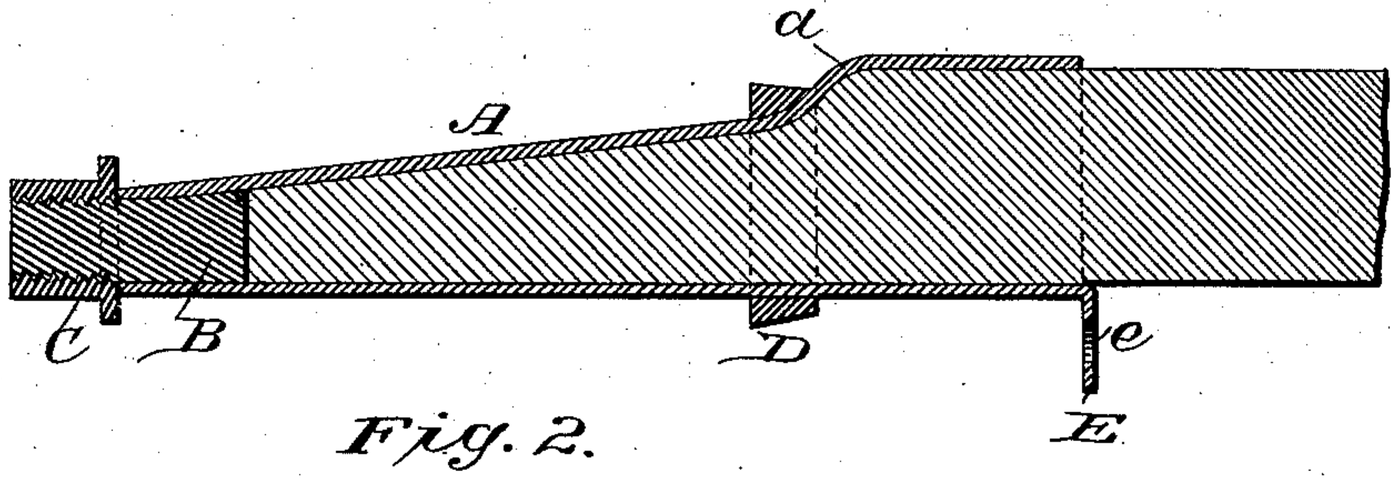


Fig. 2.

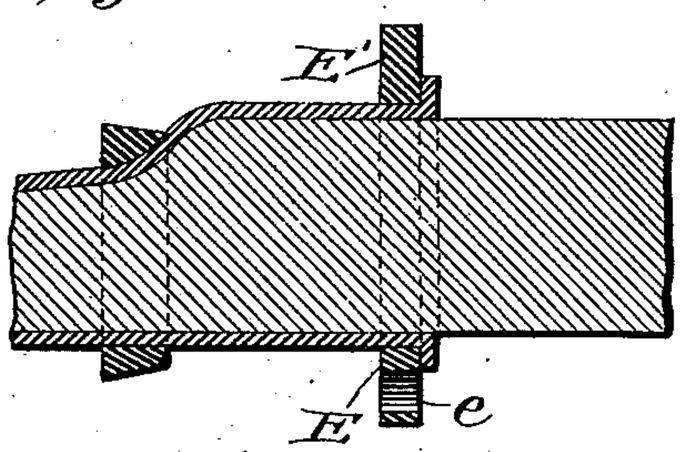


Fig. 3.

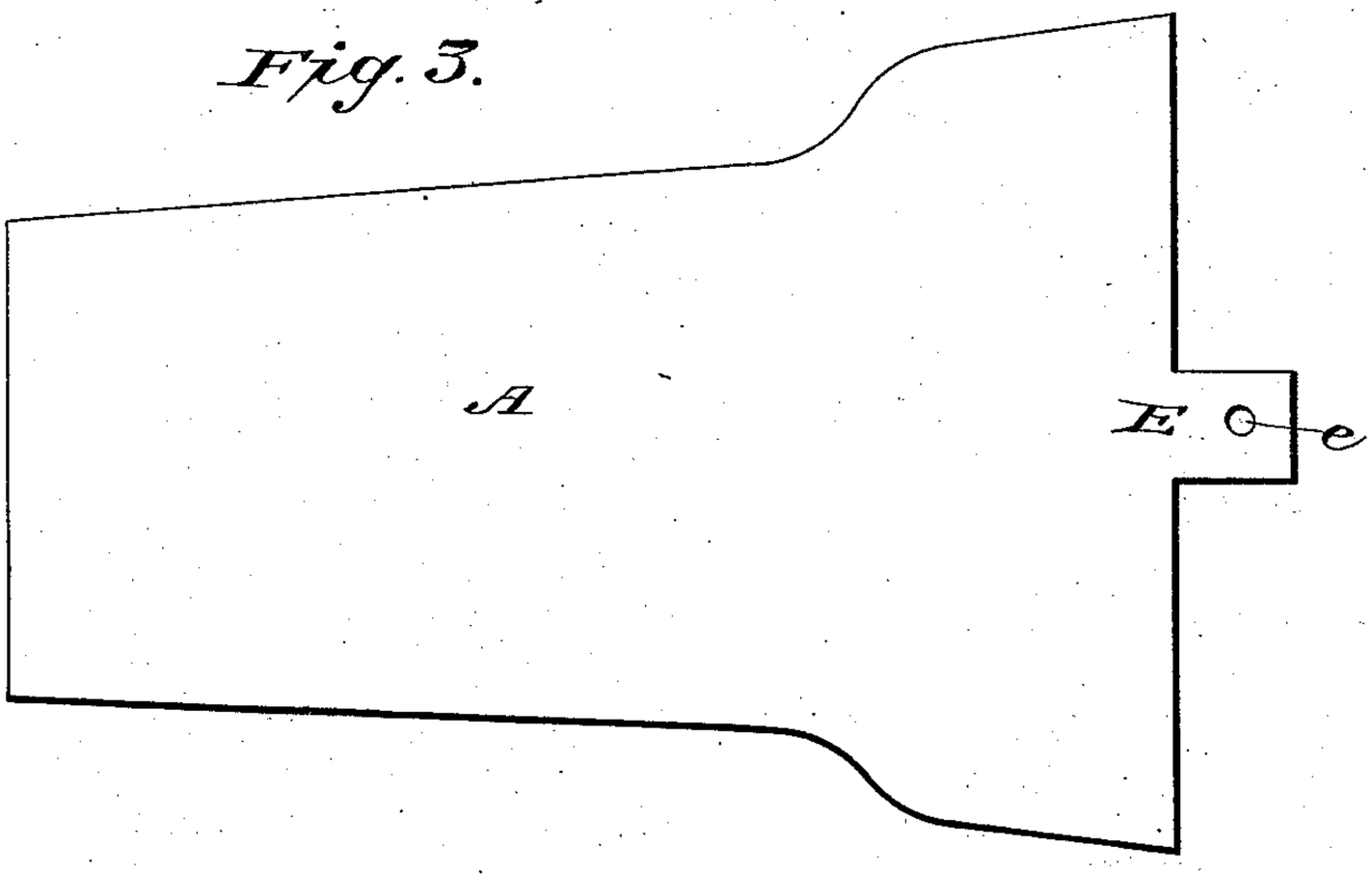
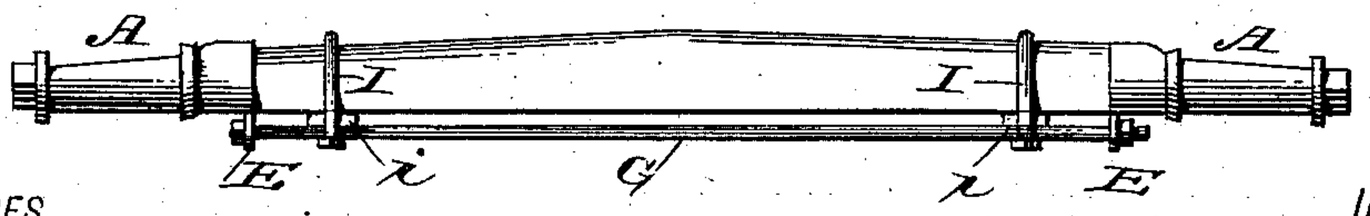


Fig. 4.



WITNESSES

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JOHN HERRMANN AND PETER HERRMANN, OF EVANSVILLE, INDIANA.

WAGON-AXLE.

SPECIFICATION forming part of Letters Patent No. 287,675, dated October 30, 1883.

Application filed July 5, 1883. (No model.)

To all whom it may concern:

Be it known that we, JOHN HERRMANN and PETER HERRMANN, citizens of the United States, residing at Evansville, in the county of Vanderburg and State of Indiana, have invented certain new and useful Improvements in Wagon-Axles and Thimble-Skeins, of which the following is a specification, reference being had therein to the accompanying drawings.

Our invention has relation to axle-skeins; and its object is to provide an axle-skein or thimble of this class that will be strong and durable as well as simple and cheap in construction; and the novelty therefore consists in the construction of the same, as will be hereinafter more fully described, and particularly pointed out in the claim.

In the accompanying drawings similar letters of reference refer to like parts of the invention.

Figure 1 is a longitudinal section of our improved axle-skein. Fig. 2 is a modification of the manner of securing the skein to the axle-tree. Fig. 3 is a plan view of the shape of the punched sheet-steel blank before it is bent to form the skein, and Fig. 4 is a longitudinal view of an axle-tree fitted with and showing the manner of securing said skeins to an axle-tree.

A is the steel skein, and is bent to the shape shown in Fig. 1, its joint or seam being welded or brazed in the ordinary manner.

B is a stud secured in the smaller end of the skein, and its projecting end is screw-threaded to receive the washer-nut C.

D is a collar upon the skein at the shoulder *a*, and that part of the skein between the collar D and the nut C is the journal upon which the hub of the wheel revolves.

E is an ear formed integral with the skein A, and bent at a right angle thereto. This ear is provided with a hole, *e*, through which the truss-rod G passes, and when two skeins are secured to the tree by means of the ears and truss-rod, as shown in Fig. 4, the rod not only effectually secures the skeins, but it braces and greatly strengthens the axle-tree.

I I are clips, and *i i* are blocks, by means of which the truss-rod G is secured parallel to the tree K at a short distance from it, so that any strain or load upon said axle is resisted by the tensile strength of the truss-rod G.

In the modification shown in Fig. 2, instead of making the ear E integral with the skein A, a collar, E′, is made, and the ear E is formed in the under side of that, and is likewise provided with the hole *e* for the truss-rod G.

Having thus fully described our invention, what we claim as new, and desire to secure by Letters Patent of the United States, is—

The axle K, provided with truss-rod G, secured parallel thereto by means of the clips I and blocks *i*, in combination with the skein A, having ears E and holes *e*, as set forth.

In testimony whereof we affix our signatures in presence of two witnesses.

JOHN HERRMANN.
PETER HERRMANN.

Witnesses:
CLARK CODY,
JAMES T. WALKER.