

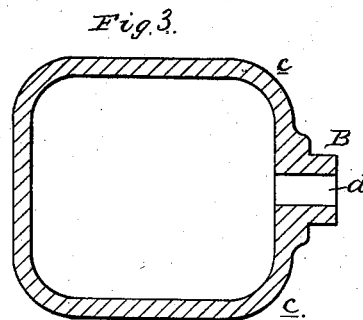
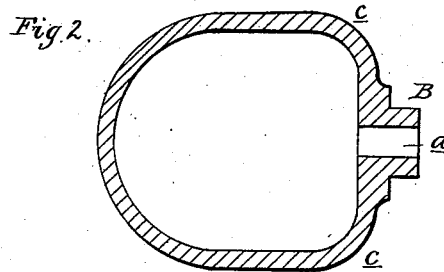
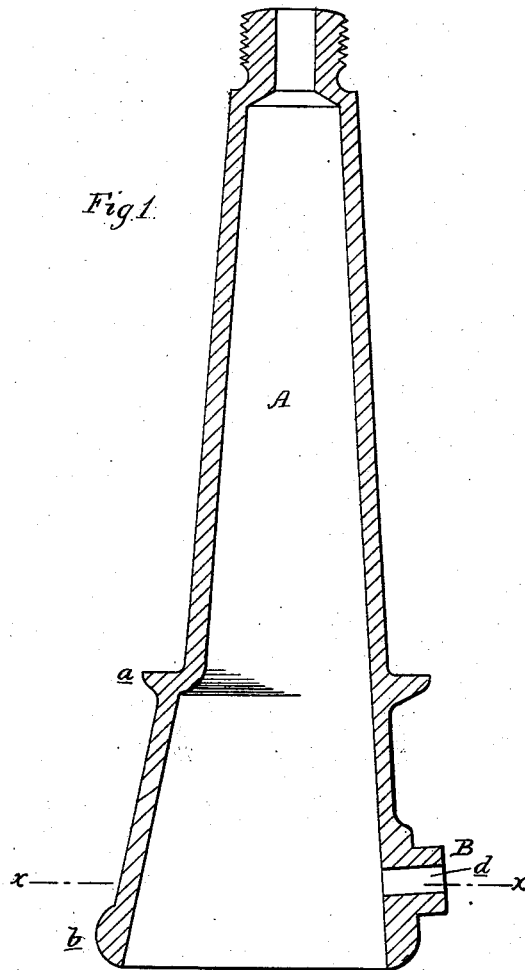
(No Model.)

D. B. TURNBULL.

AXLE SKEIN.

No. 260,139.

Patented June 27, 1882.



WITNESSES:

*A. Robertson.*

*A. Barry Semmes.*

INVENTOR

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# UNITED STATES PATENT OFFICE.

DAVID B. TURNBULL, OF DEFIANCE, OHIO.

## AXLE-SKEIN.

SPECIFICATION forming part of Letters Patent No. 260,139, dated June 27, 1882.

Application filed April 13, 1882. (No model.)

*To all whom it may concern:*

Be it known that I, DAVID B. TURNBULL, of Defiance, in the county of Defiance and State of Ohio, have invented new and useful Improvements in Thimble-Skeins for Wagons; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, which form a part of this specification.

The nature of this invention relates to certain new and useful improvements in the construction of thimble-skeins for wagons, by means of which greater strength and security are obtained for the axle in the direct line of draft of the vehicle, and which simplifies and facilitates the attachment of the hound-braces.

The invention consists in the peculiar construction hereinafter described.

Figure 1 is a vertical central longitudinal section through my improved skein. Fig. 2 is a vertical cross-section on the line X X in Fig. 1. Fig. 3 is a modification in form of the last-named figure.

In the accompanying drawings, A represents a thimble-skein of the usual construction, except as hereinafter mentioned. From *a* to *b* it is of the form shown in Fig. 2, tapering, however, upon the upper side of the skein from *b* to *a*. It will be noticed that the top of this section is of the usual form, while the bottom thereof is that of a parallelogram with its corners modified by the small circular corners *c*, so as to admit of a larger cross-section

of wood in the axle, whereby greater strength is secured than is possible in the skeins heretofore in use. This advantage may be still further increased by making the section from *a* to *b* of the same form on the top as in the bottom, as shown in Fig. 3. The skein is provided with a boss, B, by means of which the hound-brace (not shown) is secured by embracing the said boss, and is held up to its place by a coach-screw entering the wood of the axle, passing up through the hole *d* through the boss, or by a cap-screw capped into the hole of the boss.

By the employment of a skein of this character I am enabled to get greater strength at the desired points in the axle, and very much simplify the labor and expense of attaching the hound-braces.

I am aware of the Patent No. 246,115, and I do not claim the construction shown in said patent.

What I claim as my invention is—

1. A thimble-skein constructed as described, and provided with the boss for the purposes set forth.

2. A thimble-skein constructed as described, and provided with a boss for the purposes set forth, and with a screw-hole through said boss, substantially as and for the purposes set forth.

DAVID B. TURNBULL.

Witnesses:

S. T. SUTPHEN,  
HENRY HARDY.