

W. F. SNEED.
Wagon-Axles.

No. 156,716.

Patented Nov. 10, 1874.

Fig. 1.

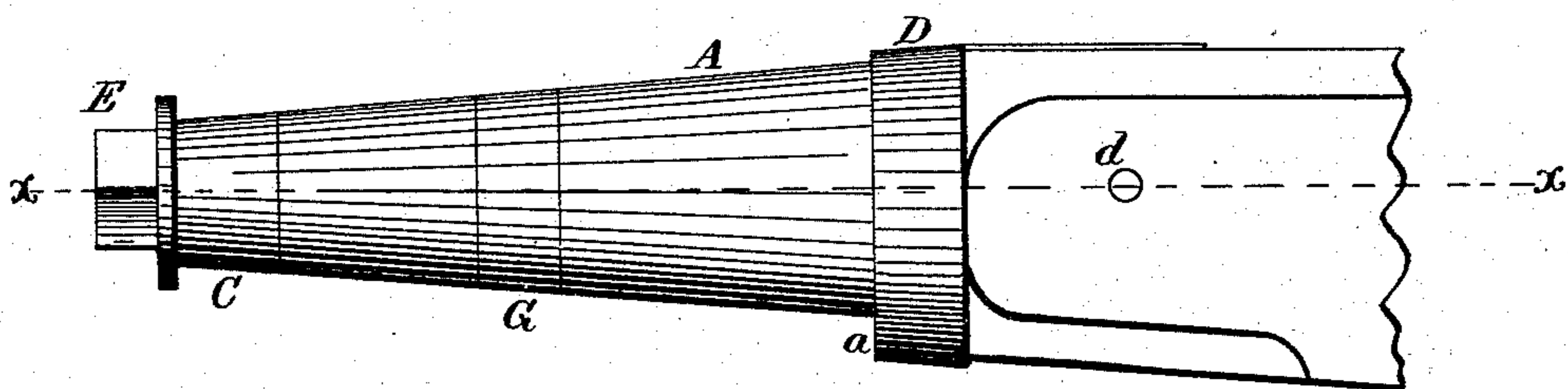


Fig. 2.

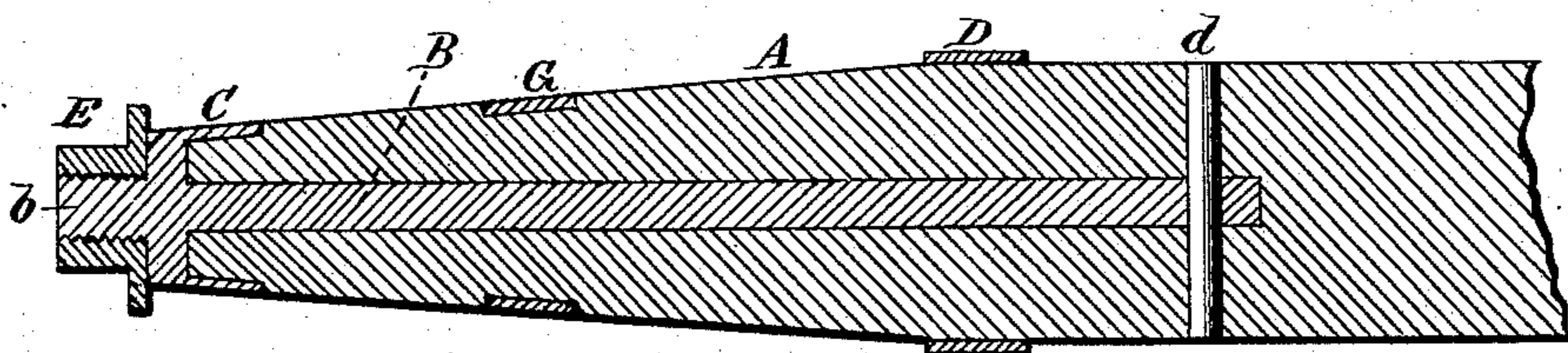
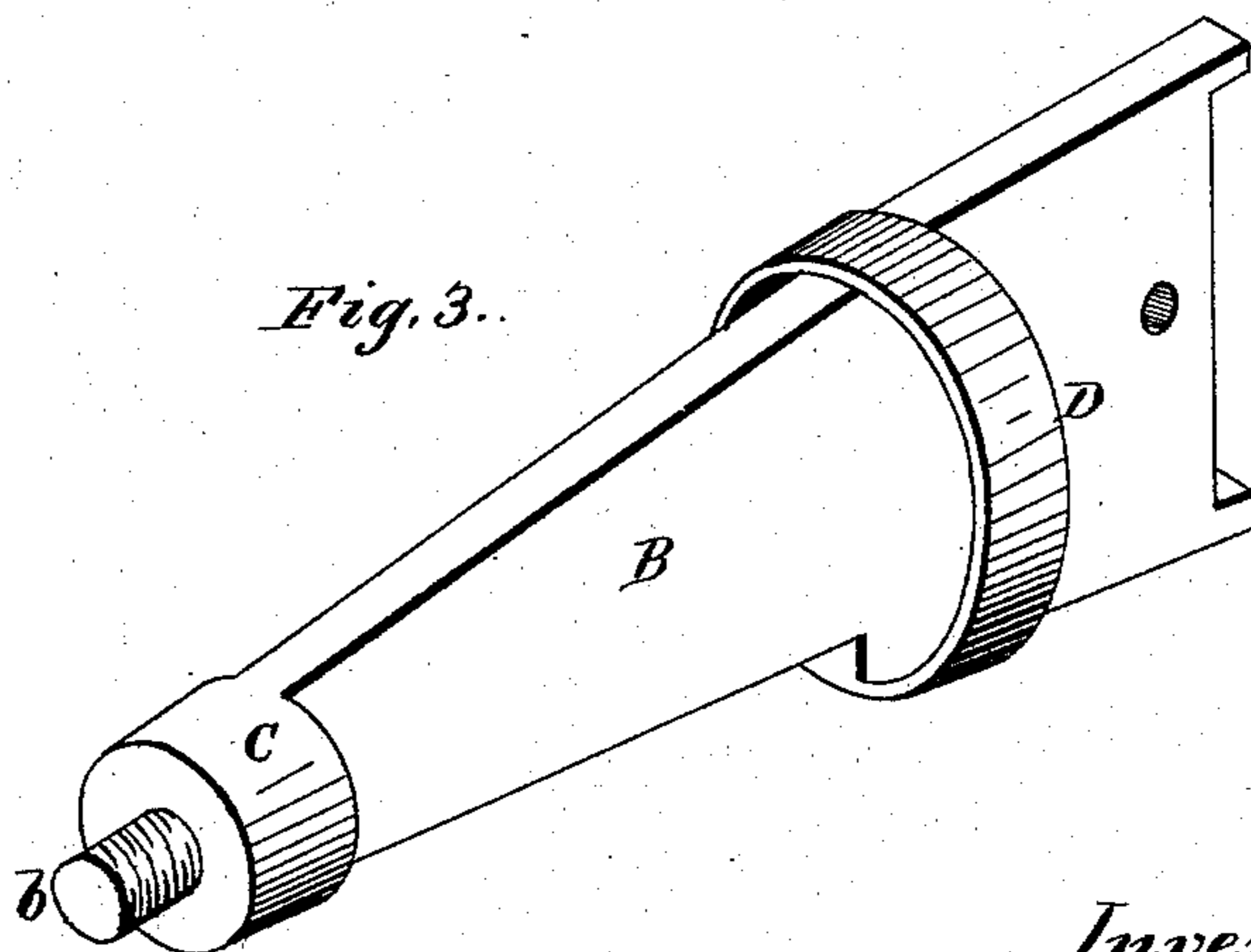


Fig. 3.



Witnesses:

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WILLIAM F. SNEED, OF DYER'S STATION, TENNESSEE.

IMPROVEMENT IN WAGON-AXLES.

Specification forming part of Letters Patent No. **156,716**, dated November 10, 1874; application filed June 10, 1874.

To all whom it may concern:

Be it known that I, W. F. SNEED, of Dyer's Station, county of Gibson and State of Tennessee, have invented certain new and useful Improvements in Axles, of which the following is a specification:

The nature of my invention consists in the construction and arrangement of an axle for wagons or other vehicles, 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 one end of the axle. Fig. 2 is a longitudinal vertical section of the same, and Fig. 3 is a perspective view of an interior metal plate used in the axle.

A represents an ordinary wooden axle, forming a spindle at each end for the wheels, and having the usual shoulder at *a*, against which the inner end of the wheel-hub comes. The axle is cut with a vertical slot running longitudinally from the outer end of the spindle inward to a suitable distance beyond the shoulder *a*. In this slot is inserted a solid metal bar, B, which corresponds with the shape and extends to the upper and lower surfaces of the axle, thus giving strength and durability to the spindle. At the point of the bar B, which thus forms the skein, is a band, C, which encircles the end of the spindle and presses the wood to the iron. From this end of the skein projects the bolt *b*, upon which is screwed the nut E to hold the wheel on the spindle. The point-band C is cast solid with

the skein B; and I have also shown a band, D, cast solid with it, to encircle the axle at the shoulder *a*, and press the wood at this point against the iron. This shoulder-band D may, however, be dispensed with, or made separate, if so desired. The skein B is held in the axle by a pin, *d*, passing through them behind the shoulder-band D, as shown in Fig. 2. G represents a separate band passed around the spindle and skein.

By means of the solid iron bar or skein running perpendicularly through the spindle, and a proper distance behind the shoulder, the spindle is made strong and durable; and when the skein gets worn it can be easily removed and replaced.

I am aware that a supporting-plate made of iron, inserted in the axle, having a locking-ferrule, has been used in connection with an iron hub.

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

The solid metal bar B, provided with the point-band C, and with the shoulder-band D, in combination with a wooden axle, A, having a longitudinal vertical slot through the spindle and beyond the shoulder *a* of the axle, substantially as and for the purposes set forth.

In testimony that I claim the foregoing as my invention I hereunto affix my signature this 3d day of June, 1874.

WM. F. SNEED.

Witnesses:

J. N. McDANIEL,
S. M. BEETON.