No. 710,431. Patented Oct. 7, 1902.

R. B. CORNETT & G. G. WALKER.

VEHICLE AXLE.

(Application filed Apr. 25, 1902.)

(No Model.)

Fig. 1.

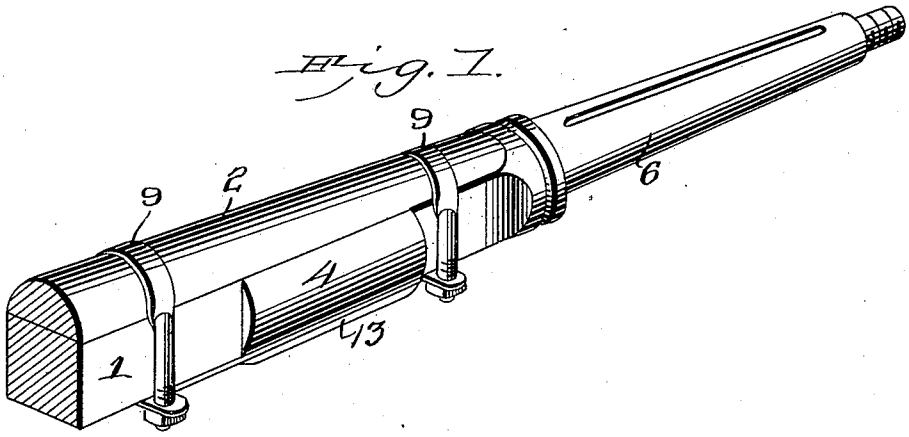
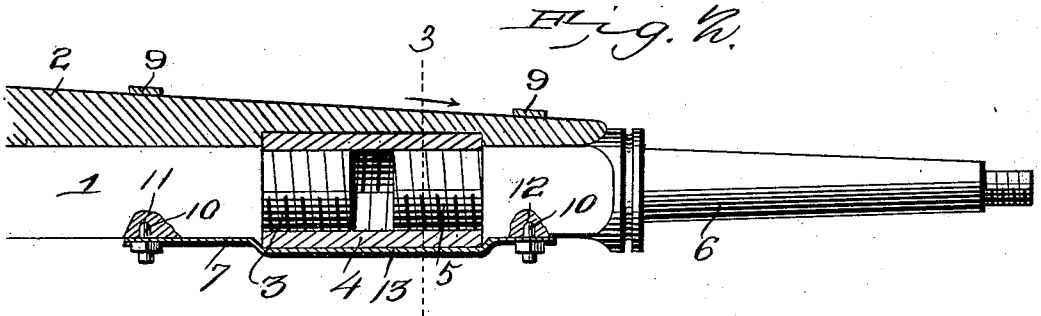


Fig. 2.



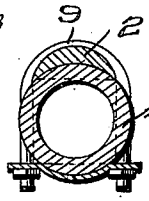


Fig. 3.

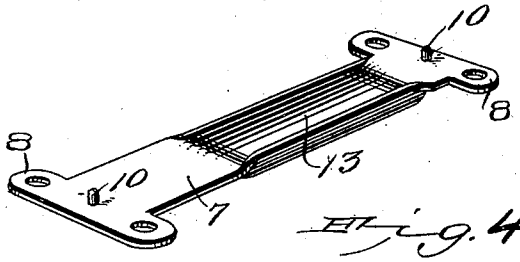


Fig. 4.

Witnesses
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THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

REUBEN B. CORNETT AND GEORGE G. WALKER, OF CHEROKEE, TEXAS.

VEHICLE-AXLE.

SPECIFICATION forming part of Letters Patent No. 710,431, dated October 7, 1902.

Application filed April 25, 1902. Serial No. 104,681. (No model.)

To all whom it may concern:

Be it known that we, REUBEN B. CORNETT and GEORGE G. WALKER, citizens of the United States, residing at Cherokee, in the county of San Saba and State of Texas, have invented a new and useful Vehicle-Axle, of which the following is a specification.

This invention relates to vehicle-axles.

The object of the invention is to afford ready and efficient means whereby a spindle that is worn out may be replaced by a new one without requiring welding to the axletree.

With these and other objects in view, as will appear as the nature of the invention is better understood, the same consists in the novel construction and combination of parts of a vehicle-axle, as will be hereinafter fully described and claimed.

In the accompanying drawings, forming a part of this specification, and in which like numerals of reference indicate corresponding parts in the several views, there is illustrated one form of embodiment of the invention capable of carrying the same into practical operation, it being understood that the elements therein exhibited may be varied or changed as to shape, proportion, and exact manner of assemblage without departing from the spirit thereof, and in these drawings—

Figure 1 is a view in perspective of one end of an axle, showing the manner of assembling the spindle therewith. Fig. 2 is a view in vertical longitudinal section. Fig. 3 is a view in transverse section, taken on the line 3 3, Fig. 2, and looking in the direction of the arrow thereon. Fig. 4 is a detail perspective view of a brace-plate or clamp used in connection with this invention.

Referring to the drawings, 1 designates the ordinary axletree, and 2 the bolster. The axletree is provided with a threaded terminal 3 to be engaged by one end of a threaded coupling 4, the other end of which engages the threaded terminal 5 of the spindle 6. In practice it is designed to furnish the spindle as an article of manufacture with a threaded terminal 5, the threads of which are to be of standard gage, as also the coupling, so that when a spindle wears out one may readily be ordered and fitted to place. As herein shown, the coupling 4 is made of a length of cylindrical tubing, and its upper portion therefore projects somewhat above the upper face of the axle 3 and the rear portion of the spindle, and under these conditions it will be necessary to cut away the under side of the bolster to accommodate the coupling; but it is to be understood that this coupling may be made rectangular in cross-section, and as this will be readily understood detailed illustration thereof is deemed unnecessary.

As a means for preventing the spindle from turning in the coupling when once assembled therewith and also to brace both the spindle and the coupling, a clamp-plate 7 is provided, having laterally-perforated ears 8, through which are adapted to pass the terminals of a pair of clips 9, that also operate to clamp the bolster securely upon the axletree, coupling, and shank of the spindle. The terminals of this clamp are provided with studs or projections 10, adapted to fit in recesses 11 and 12, formed, respectively, in the under side of the axletree and in the shank of the spindle, thereby positively precluding the possibility of the spindle turning within the coupling.

As herein shown, the intermediate portion of the brace-plate is concaved, as at 13, to fit closely around the coupling; but when the coupling is rectangular in cross-section, as above described, this portion of the clamp-plate will be flat.

To apply a spindle to the axletree, it will only be necessary to loosen the clips 9, thus to detach the bolster and the clamp-plate, unscrew the spindle from the coupling, position the new one, and then assemble the bolster and clamp-head as before.

It will be seen from the foregoing description that by the employment of this form of device any person having ordinary mechanical ability may supply a new axle for one that is worn out without the necessity of the employment of skilled labor for the purpose and without loss of time.

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

1. The combination with an axletree provided with a threaded terminal, of a threaded coupling engaging the terminal, a brace-plate clamped against the under side of the axle and the spindle, and engaging the coupling, and means carried by the brace-plate for pre-

venting the spindle from turning in the coupling.

2. The combination with an axletree provided with a threaded terminal, and in its under side with an orifice, of a threaded coupling engaging said terminal, a spindle having a threaded terminal engaging the coupling and provided in its under side with an orifice, a bolster disposed on top of the axletree, coupling, and shank of the spindle, and a brace-plate clamped against the axletree, coupling and shank of the spindle, the brace-plate being provided with studs or projections for engaging said orifices.

3. The combination with an axletree provided with a threaded terminal, and in its under side with an orifice, of a threaded coupling engaging the terminal, a spindle having a threaded terminal engaging the coupling and provided in its under side with an orifice, a bolster disposed on top of the axletree, coupling, and shank of the spindle, and a brace-plate clamped against the under side of the axletree, coupling and shank of the spindle, the brace-plate being provided at its terminals with studs or projections for engaging the orifices, and intermediate of its ends with a concaved portion to receive the coupling.

In testimony that we claim the foregoing as our own we have hereto affixed our signatures in the presence of two witnesses.

REUBEN B. CORNETT.
GEORGE G. WALKER.

Witnesses:
R. FINN,
A. P. GRAY.