(No Model.)

H. C. WHEELER.

RUNNING GEAR FOR WAGONS.

No. 265,291. Patented Oct. 3, 1882.

Fig 1.

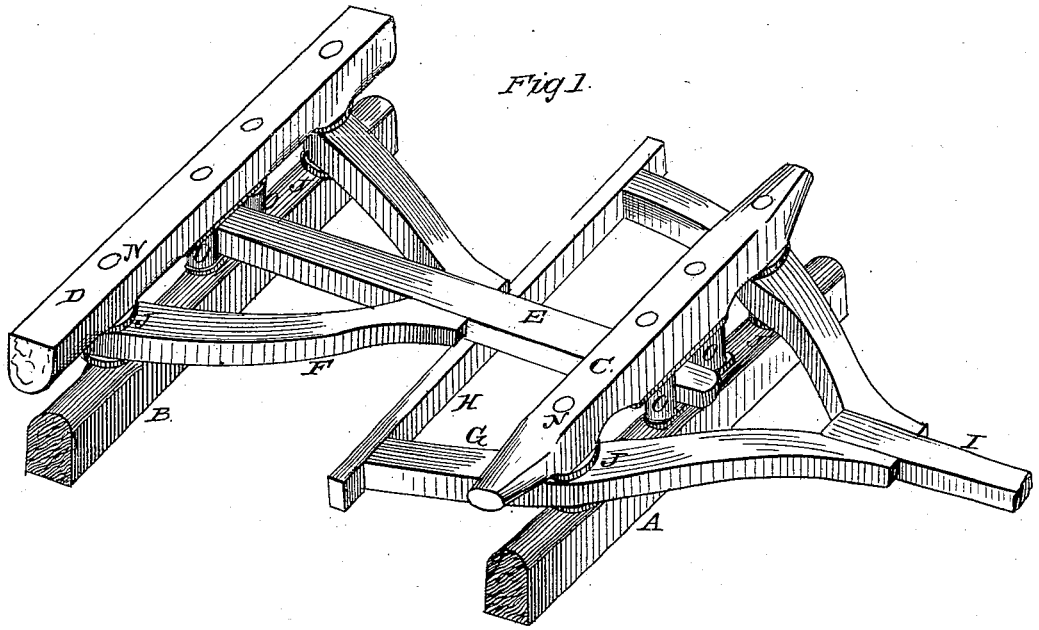


Fig. 2.

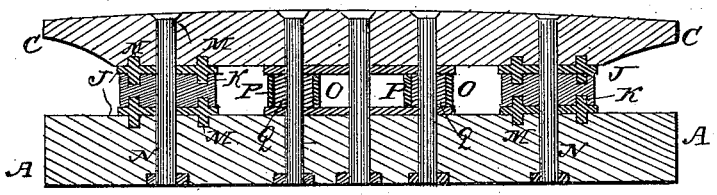
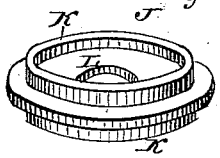


Fig. 3.



WITNESSES:

Fred. G. Dieterich.

C. K. Allen

INVENTOR.

Horace C. Wheeler

by C. A. Snow & Co.

ATTORNEYS.

UNITED STATES PATENT OFFICE.

HORACE C. WHEELER, OF LEBANON, INDIANA.

RUNNING-GEAR FOR WAGONS.

SPECIFICATION forming part of Letters Patent No. 265,291, dated October 3, 1882.

Application filed June 28, 1882. (No model.)

To all whom it may concern:

Be it known that I, HORACE C. WHEELER, of Lebanon, in the county of Boone and State of Indiana, have invented certain new and useful Improvements in Running-Gears; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification.

Figure 1 is a perspective view of a wagon running-gear embodying my improvement. Fig. 2 is a vertical sectional view of the same through the front bolster, hounds, and axle-tree; and Fig. 3 is a detail view.

Corresponding parts in the several figures are denoted by like letters of reference.

This invention relates to the running-gear of vehicles; and it consists in an improved method of and means for connecting the hounds with the bolsters and axle-trees without mortising, as will be hereinafter fully described, and particularly pointed out in the claims.

In the drawings, A and B represent the front and rear axles, and C D represent the front and rear bolsters, respectively.

E is the reach; F F, the rear hounds; G G, the front hounds, H, the connecting-bar of the latter, which slides under the reach; and I, the tongue.

J is a circular plate or washer, (shown clearly in Fig. 3,) and provided on its upper and lower sides with flanges K, concentric with but at some distance from its rim or edge, and having also a central perforation, L. At the junction of the hounds with the bolsters and axle-trees the parts are not mortised together, as is usually done, thereby weakening the parts, but one of the plates or washers J is interposed at each joint, and the adjoining parts—hound and axle-tree or hound and bolster, as the case may be—provided with circular grooves M to receive the flanges K. A bolt, N, is then passed through the bolster, hound, axle-tree, and the interposed plates or washers J, thus completing the joint. To make the same perfectly tight and water-proof, a mixture of white or red lead and oil may be used.

O O are washers consisting of metallic tubes P, containing wooden plugs Q. Upon the bolts N, which connect the bolsters with the axle-trees adjoining the reach, I interpose these washers for the purpose of keeping the parts sufficiently spread, and also in order to protect the bolts.

My improved plates or washers J may be advantageously used for connecting all kinds of timbers where it is desired not to weaken the same by mortises, the flanges K serving to give very great strength to such joints.

I claim and desire to secure by Letters Patent of the United States—

1. The plate J, provided on its upper and lower sides with flanges K at some distance from the edge, as set forth.

2. In a vehicle running-gear, the combination, with the axle-trees, hounds, and bolsters, having grooves M, of the plates J, having flanges K, and the connecting-bolts, as set forth.

3. In vehicle running-gear, the combination, with the axle-trees, hounds, and bolsters, having grooves M, of the plates J, having flanges K, the tubular washers P, having plugs Q, and the bolts N, as set forth.

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

HORACE C. WHEELER.

Witnesses:

CHAS. L. WHEELER,

CLINTON COPELAND.