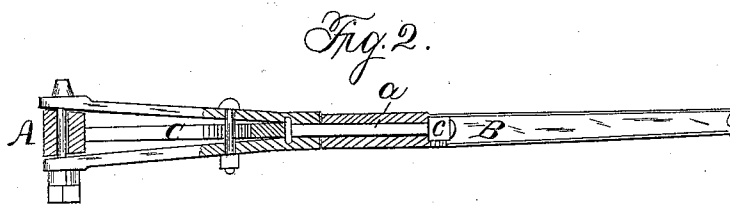
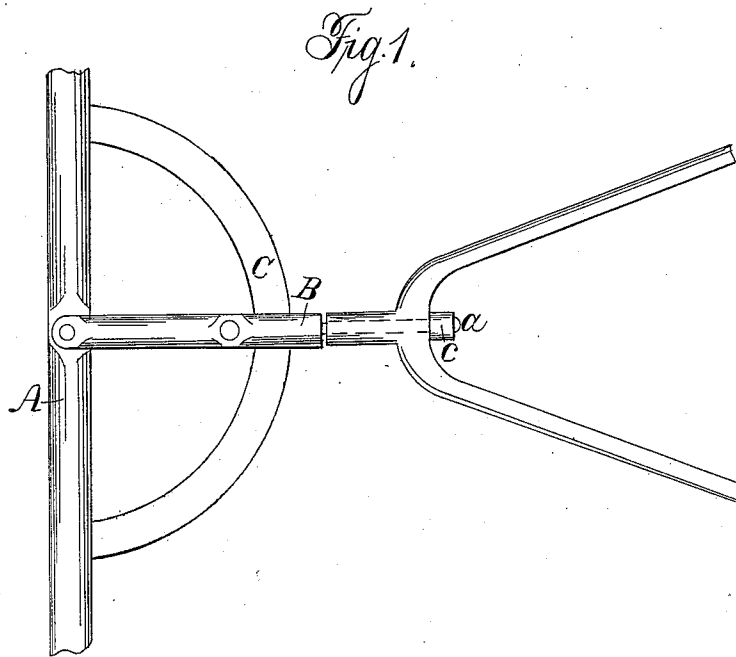


Z. PLUMB.
Running-Gear.

No 70.607

Patented Nov. 5. 1867.



Witnesses.
Theo Insoche
J. M. Fraser

Inventor
Z. Plumb
Per *James H. Co.*
Attorneys

United States Patent Office.

ZENAS PLUMB, OF DE WITT, IOWA, ASSIGNOR TO HIMSELF AND JOHN C. POLLEY, OF THE SAME PLACE.

Letters Patent No. 70,607, dated November 5, 1867.

IMPROVEMENT IN WAGON-REACHES

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, ZENAS PLUMB, of De Witt, in the county of Clinton, and State of Iowa, have invented a new and useful Improvement in Wagon-Reach; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a top view of my improved swivel wagon-reach connected with a front axle.

Figure 2 is a longitudinal sectional view of the same, showing the mode of connecting the swivel.

Similar letters of reference indicate corresponding parts.

This invention relates to a new and useful improvement in the construction of a wagon-reach, either single or double, and consists in applying a swivel to it in such a manner that the fore and hind axles of a wagon or other vehicle can rock out of level independently of each other, when either wheel falls into a rut or strikes a stone or other obstruction, whereby all twisting or wrenching of the reach is prevented, and injury thereof is avoided.

A represents the front axle of a wagon, to which is attached the double reach B, formed and connected with both axles, and with the D plate C, in the usual way. But the reach is made in two parts, connected by a swivel-joint, and in the case of a double reach, as shown in the drawing. The forward part of the reach has a screw-bolt, *a*, secured in the end, and projecting therefrom to pass through the hollow end of the back part of the reach in which the bolt fits, so that it can turn freely, while it is secured by a nut, *c*, in the fork of the reach. A single reach may be made in two parts, connected by a swivel-joint in a similar manner.

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

Constructing a wagon-reach in two parts, connected by a swivel-joint, substantially as and for the purpose described.

The above specification of my invention signed by me this first day of August, 1867.

ZENAS PLUMB.

Witnesses:

JAMES W. BROWN,

JAY C. FERREL.