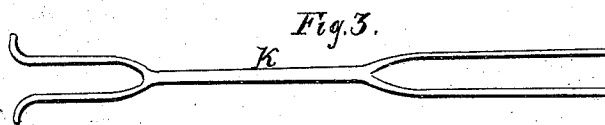
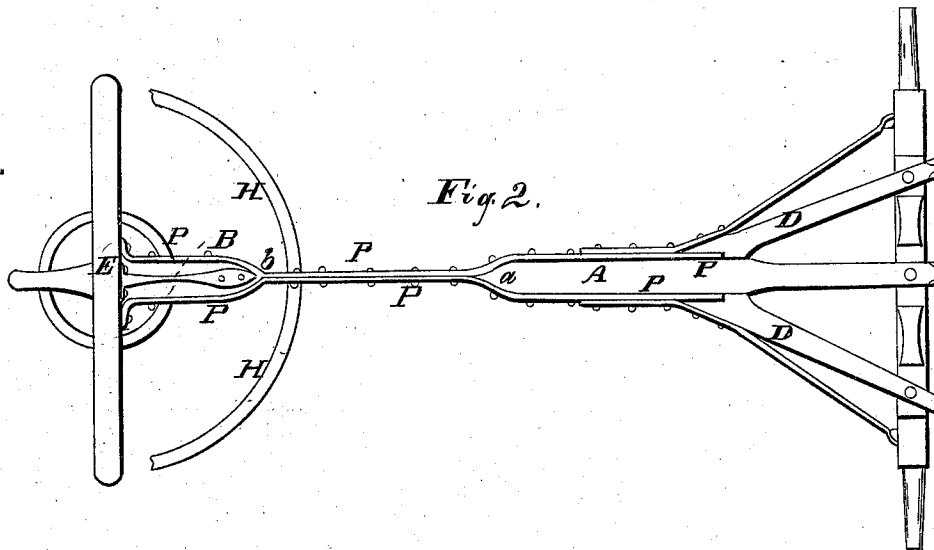
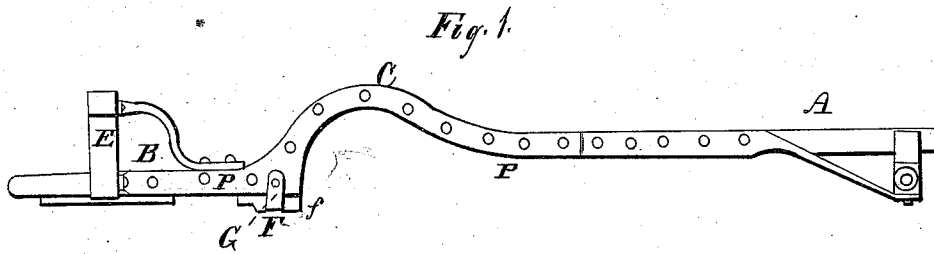


P. HICKS.
Running Gear.

No. 83,497.

Patented Oct. 27, 1868.



Witnesses:

J. B. Trenchin
John A. Shicks

Inventor

Philip Hicks

United States Patent Office.

PHILIP HICKS, OF CHICAGO, ILLINOIS.

Letters Patent No. 83,497, dated October 27, 1868.

IMPROVED TRUCK AND WAGON-REACH.

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, PHILIP HICKS, of the city of Chicago, in the county of Cook, and State of Illinois, have invented certain new and useful Improvements in "Truck and Wagon-Reach;" and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, making part of this specification, and to the letters of reference marked thereon, like letters indicating like parts wherever they occur.

To enable others skilled in the art to construct and use my invention, I will proceed to describe it.

Figure 1 represents the side elevation, and

Figure 2 the plan of the reach.

Figure 3 represents a solid metallic spnce.

My invention consists in making ordinary wooden reach of trucks and wagons of two separate parts, in connecting or splicing said parts with metallic plates, or metallic casting, so arranged as to allow the front wheels of such trucks or wagons, at the sharp turns, to freely pass under said plates or casting.

A is the hind part, and B the front part of the wooden reach, having their inner ends, *a b*, tapered. P P are metallic plates, straight at the ends, and curved about the middle, as represented on fig. 1. They are bolted together at the curve C, forming there one mass of metal, and separating *a*, and enclosing the tapered ends, *a b*, of the wooden parts of the reach, to which they are securely bolted. The plates extend back to the hind hounds D D, and in front to the front bolster, E, thus forming, with wooden parts A B, one continuous reach. The above-described metallic splice, instead of consisting of two separate continuous curved

plates, as P P, can be cast in one solid piece of metal, K, as represented on fig. 3, the ends, *a b*, of the wooden parts A B, being fitted to the casting.

F is a rubbing-iron, consisting of a block, strapped to and under the plates P P, by a metallic strap, G, near to or at the point where plates P P or casting K connect with tapered end, *c*, of the wooden part B of the reach. The strap is bolted to the plates or casting, and the back part, P, of the block F is resting on and moving along the sway-bar, H, used in heavy trucks and wagons.

The advantages of the above-described curved metallic splicing are, that not only a new curved reach can be easily made, but any old straight reach can readily and cheaply be converted into a curved one.

I do not claim either wooden or metallic continuous curved reach, *per se*, as I am aware that such reaches have been and are used; but

What I do claim as my invention, and desire to secure by Letters Patent, is—

1. The reach made of two wooden parts, A B, connected by a metallic curved splice, consisting of separate plates, P P, or of solid metallic piece, K, the whole arranged substantially as and in the manner herein set forth and specified.

2. The metallic block K, constructed and secured to the curved part of the reach or splice, substantially as and for the purpose set forth.

PHILIP HICKS.

Witnesses:

J. B. TURCHIN,
JOHN J. HICKS.