

L. C. MINER.
Carriage-Pole.

No. 39,415.

Patented Aug. 4, 1863.

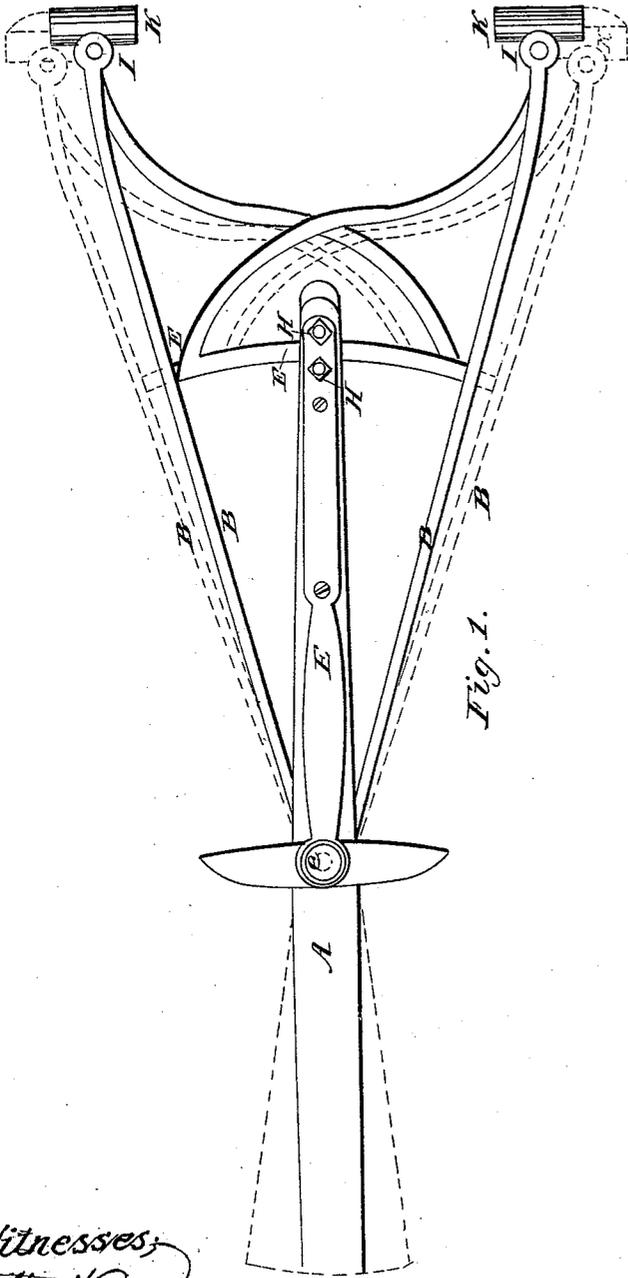


Fig. 1.

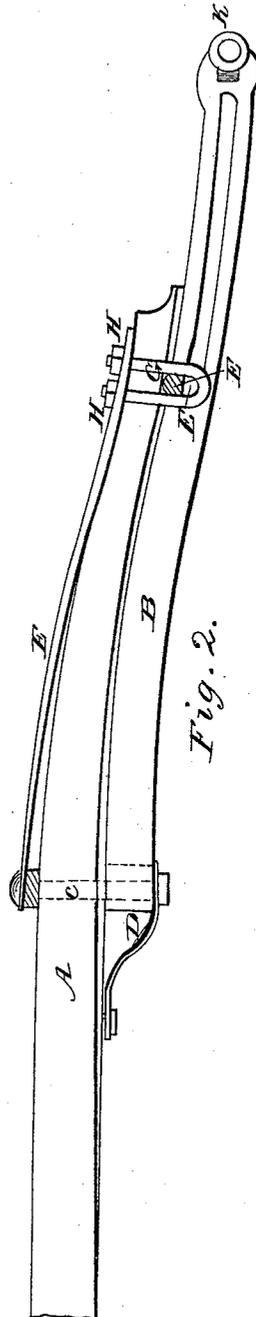


Fig. 2.

Witnesses:
H. V. Fine
O. W. Hays

Inventor:
L. C. Miner

UNITED STATES PATENT OFFICE.

LEMAN C. MINER, OF HARTFORD, CONNECTICUT.

IMPROVEMENT IN ADJUSTABLE CARRIAGE-POLES.

Specification forming part of Letters Patent No. **39,415**, dated August 4, 1863; antedated December 19, 1862.

To all whom it may concern :

Be it known that I, LEMAN C. MINER, of the city of Hartford, county of Hartford, and State of Connecticut, have invented a new and useful Improvement in the mode of constructing Adjustable Carriage-Poles; and I do hereby declare that the following is a correct description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon—

The nature of my invention consists in the arrangement of the attachments to the pole of a carriage, sleigh, or other vehicle, to render the same adjustable in width to any required size.

To enable others skilled in the art to make and use my invention, I will proceed to describe the construction and operation.

In the drawings, Figure 1 represents the plan view of a pole with the adjustable attachments; Fig. 2, a side view of the same.

The usual mechanical manner of constructing carriage poles with their attachments is such that each one is fitted to its proper vehicle, and can be applied only as so fitted, and as in almost all carriages there is a variation in the width (more or less) between the attaching parts, and consequently in case of accident and under many and various circumstances, the chances are against finding another pole and attachments to fit or supply the place, in consequence of the variation in the width. To obviate this difficulty is the motive of this my simple and effective invention.

The pole A, the wing stays or braces B B, the joint-stay D, and the pole-plate F, are all firmly connected together by the evener-bolt C. From the wing-braces B B are attached and form part of the sliding arrangements the transverse sliding braces E E, which are

formed circular, the radius of the circle being from the center of the evener-bolt C, and the two extend the whole width between the wing-braces B B, and are each formed of one-half diameter, with the flat parts sliding one above the other, and are clasped together by the clip G, or any other suitable device, and are firmly held in the required position by the nuts and screws H H. These nuts and screws H H are to be loosened when the operation of adjusting the width is required, to allow the circular slides E E to move, and when extended or closed to the required distance between, the nuts H H are tightened and cause the clip G to have a strong hold of the two circular slides E E, binding the whole firmly together, the pole A always retaining a central draft, whatever width the connection may be between, and also the same if the pole is turned on one side when used to a sleigh.

The socket-joints I I and sockets K K are the attaching parts to the axle of the carriage, and vibrate to suit and adjust the same in a straight line, whatever the width may be between.

The utility of my invention is in the whole forming a convenient, economical, and firm arrangement for the purpose specified.

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

The arrangement of the adjustable circular slides E E, braces B B, binding-clip G, and the vibrating socket-joint connections I K, in combination with the evener-bolt C and attachments, in the manner and for the purpose substantially as herein set forth and described.

L. C. MINER.

Witnesses:

WM. VINE,
E. W. WATERS.