

M. A. KOON.
Carriage Pole.

No. 82,127.

Patented Sept. 15, 1868.

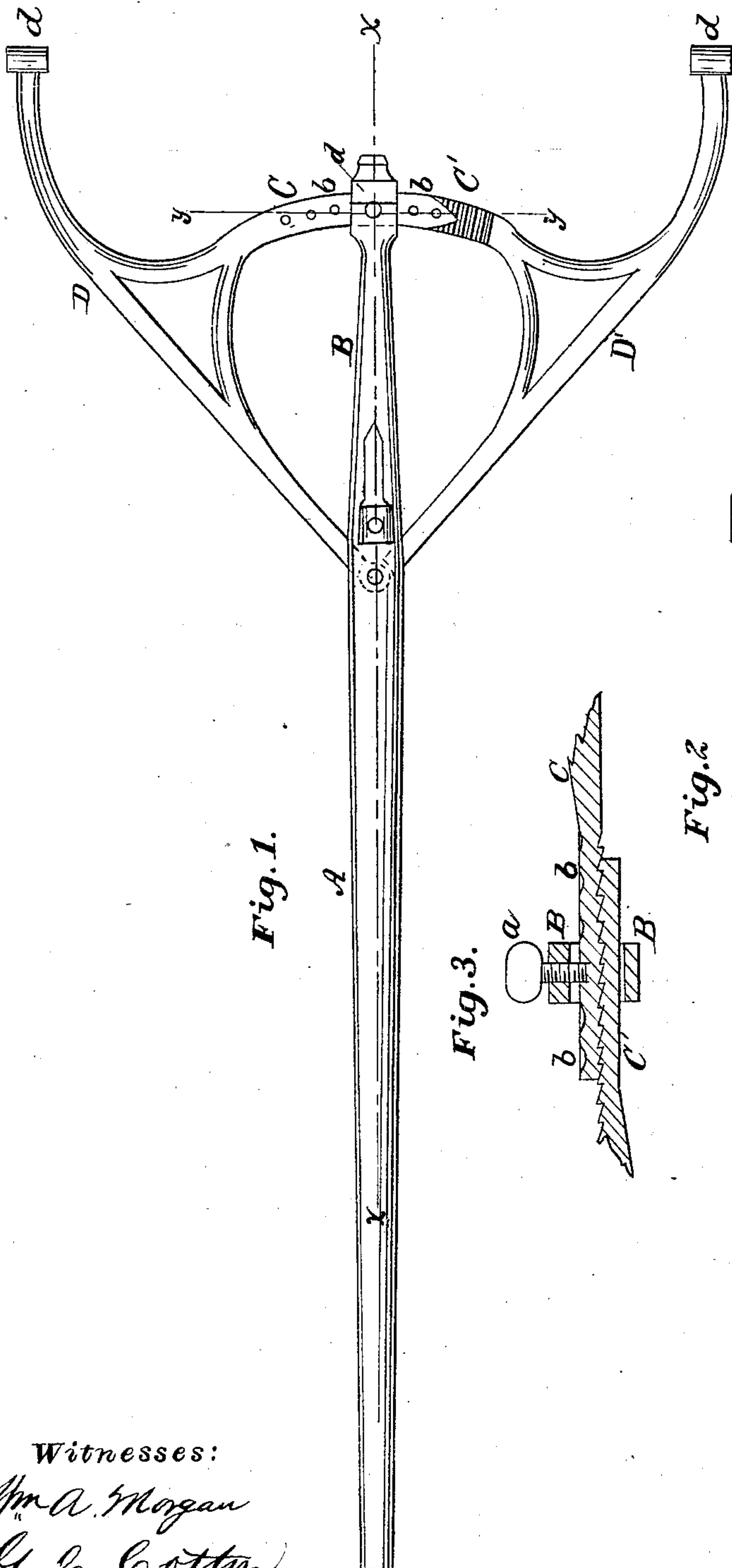


Fig. 1.

Fig. 3.

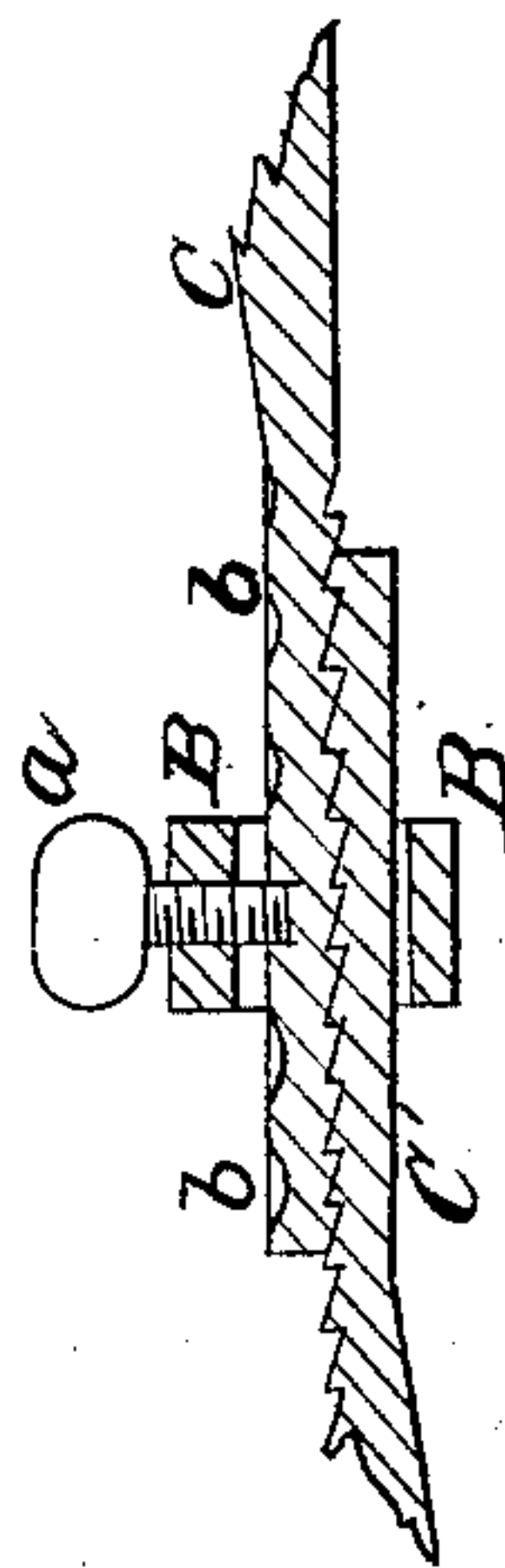
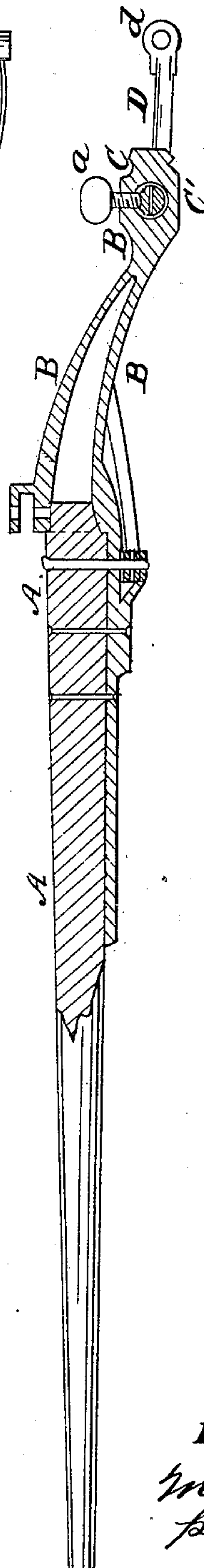


Fig. 2



Witnesses:
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M. A. KOON, OF CATSKILL, NEW YORK.

Letters Patent No. 82,127, dated September 15, 1868.

IMPROVEMENT IN ADJUSTABLE CARRIAGE-POLE.

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, M. A. Koon, of Catskill, in the county of Greene, and State of New York, have invented a new and useful Improvement in Adjustable Carriage-Poles; 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 represents a plan or top view of my improved adjustable carriage-pole.

Figure 2 is a vertical longitudinal section of the same, taken on the plane of the line *x x*, fig. 1.

Figure 3 is a detail vertical transverse section, on an enlarged scale, of the same, taken on the plane of the line *y y*, fig. 1.

Similar letters of reference indicate like parts.

This invention relates to that class of carriage-poles which can be adjusted to carriages, sleighs, or other vehicles, in which the clips may be set any suitable distance apart, and to any length of axle.

The present invention is more particularly intended as an improvement on the adjustable carriage-pole, for which Letters Patent, No. 39,415, were granted to Leman C. Miner, on the 4th day of August, 1863.

The object of the present invention is to prevent the segmental divided brace from working loose in the binding-clip, by which its two parts are secured to the pole; also to keep and secure them in the relative position to which they may have been adjusted, and to simplify the general construction of the whole apparatus.

A, in the drawing, represents the wooden pole. B is the curved rear extension of the same. The extension B is made of malleable iron, or other suitable metal or material, and is separately attached, either by means of bolts, rivets, or otherwise, to the rear end of the pole.

By this arrangement the construction of the pole is already greatly simplified, as it can be straight, and as an ordinary pole can be easily fitted to the extension B, in the manner shown.

Vehicles, already in use, by this arrangement have their poles made adjustable without requiring new poles.

The rear end of the extension B has a horizontal aperture, through which the circular slides, or arms C C', that project from the braces D, are fitted.

The braces D D' are pivoted to the under side of the pole or of its extension, in suitable manner.

The arm C rests upon the arm C', as in fig. 3. The contiguous faces of these arms are roughened or toothed, as is clearly shown in fig. 3, so that they cannot slide upon each other when once adjusted. They are clamped by means of a screw, *a*, which is fitted through the upper or under side of the extension B, as shown in fig. 2. The outer face of that arm, C or C', with which the end of the screw *a* comes in contact, is provided with indentations *b b*, as shown, for the purpose of preventing the said arm from slipping under the screw.

By this whole arrangement of arranging the arms and the clip, the whole device can be securely held in any desired position.

In the aforesaid pole of L. C. Miner, the clip was formed by means of a U-shaped metal bar, fitted around the arms C C', and through the pole-extension. By the constant wear, the arms would soon work loose in the said U-shaped bar, and the tongue would swing and be unsteady.

The vibrating socket-joint connections *d d* are pivoted or fastened to the braces D D', in the ordinary or in suitable manner.

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

1. Making the extension B, through which the arms C C', of the swinging braces D D' pass, separate from the pole itself, substantially as herein shown and described.

2. The arms C C', constructed as described, and attached directly in the pole-extension, by means of a horizontal aperture fitted through, and a screw, *a*, fitted into the same, as set forth.

3. Making the contiguous surfaces of the arms C C' rough or toothed, as set forth, and forming indentations *b b*, or their equivalents, on the outer face of one of them, substantially as and for the purpose herein shown and described.

M. A. KOON.

Witnesses:

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