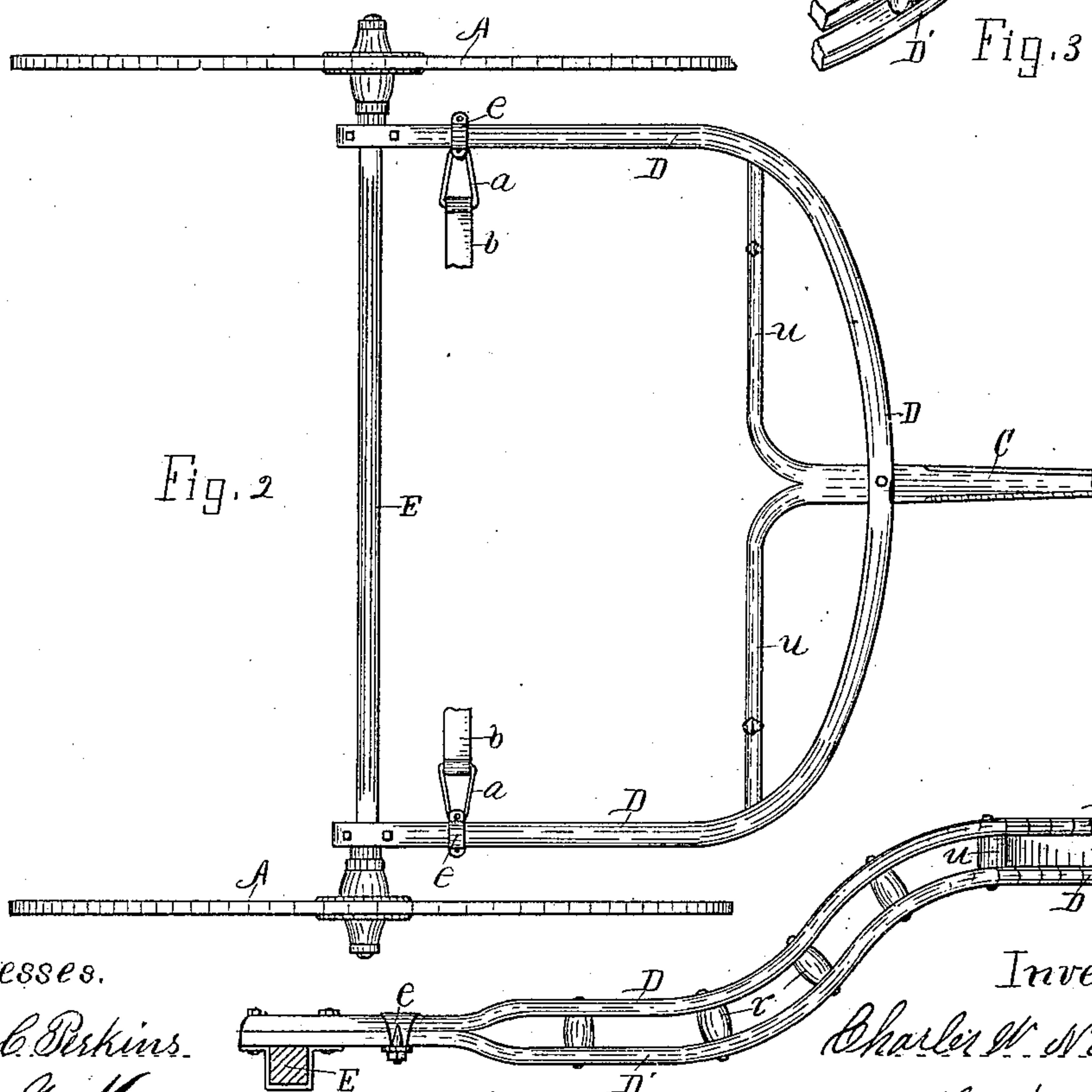
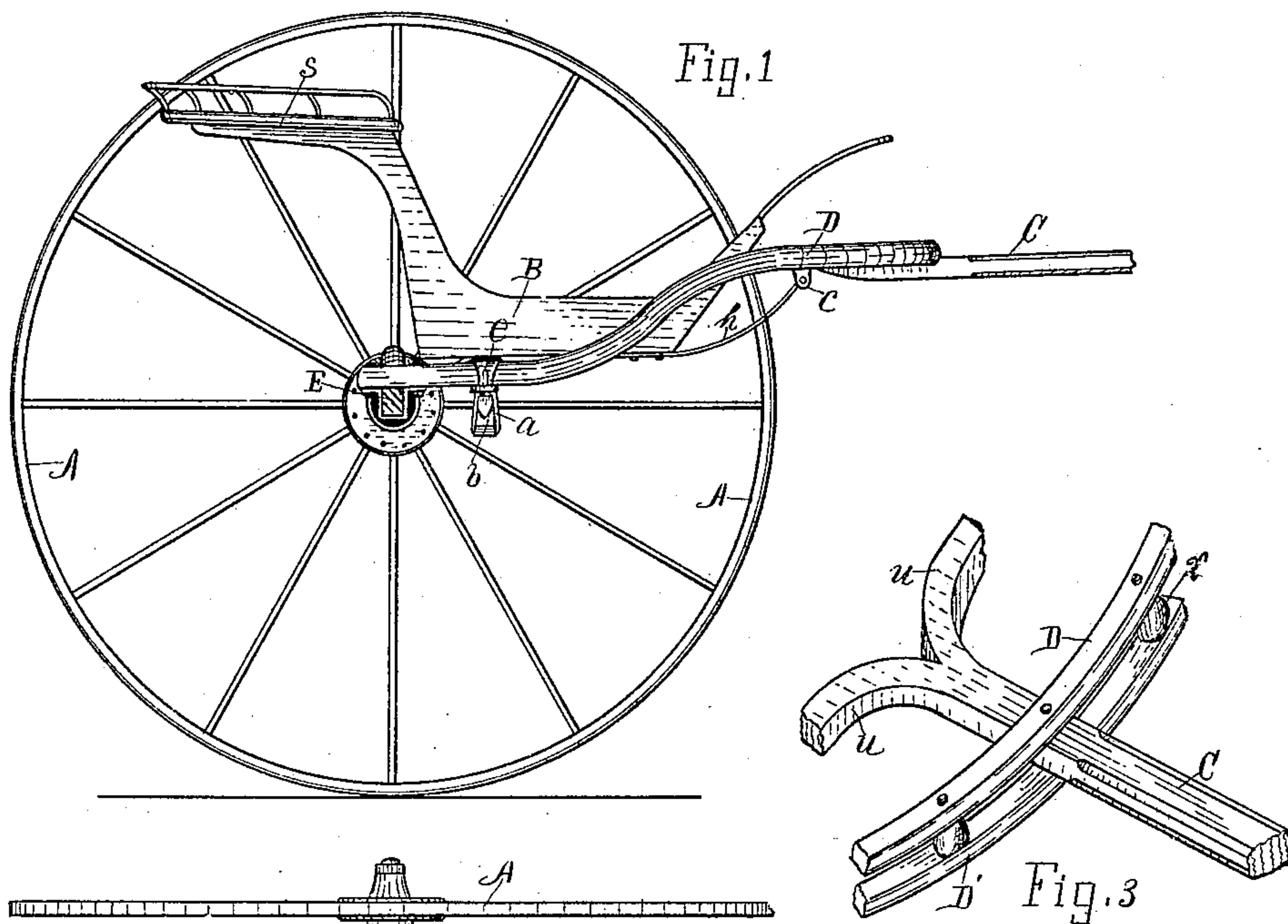


(No Model.)

C. W. NOYES.  
TWO WHEELED VEHICLE.

No. 356,494.

Patented Jan. 25, 1887.



Witnesses.  
John C. Perkins  
Horace T. Haines

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att'y.



# UNITED STATES PATENT OFFICE.

CHARLES W. NOYES, OF KALAMAZOO, MICHIGAN.

## TWO-WHEELED VEHICLE.

SPECIFICATION forming part of Letters Patent No. 356,494, dated January 25, 1887.

Application filed September 17, 1886. Serial No. 213,774. (No model.)

*To all whom it may concern:*

Be it known that I, CHARLES W. NOYES, a citizen of the United States, residing at Kalamazoo, county of Kalamazoo, State of Michigan, have invented a new and useful Pole-  
5 Cart, of which the following is a specification.

This invention relates to that class of two-wheeled vehicles having a body suspended or supported over the axle.

10 It has for its object a peculiar construction, below described and claimed, whereby the vehicle is provided with a pole for using two horses.

In the drawings forming a part of this specification, Figure 1 is a side elevation, one wheel  
15 being removed; Fig. 2, a plan view with vehicle-body removed. Fig. 3 shows enlarged broken details, below described; and Fig. 4 is an enlarged side view of the tongue or pole  
20 support, showing a change from Fig. 1.

Referring to the letters of reference marked on the drawings, the body B, with seat s, is pivotally attached to the pole-support D at c  
25 h, and supported by spring b and hangers a a at e, much the same as these parts have been associated with thills, which have heretofore occupied the place of the side bars of the pole-support D, attached at rear end to axle E.

In this application I make no especial claim  
30 to the particular way the body or seat-support may be attached to, supported by, or suspended from the pole or pole-support.

The pole support is bent, and is something the shape of a widened letter U, the free ends  
35 being attached to the axle, and thus surrounding the front and sides of the body, Figs. 1 and 2.

The pole C is attached to the front side or bow of the pole support D. From thence the  
40 pole extends to the rearward and branches both ways laterally, as at u, the free end of said branches u u being attached on each side to the pole support. The pole is thus supported and braced against vertical and lateral  
45 strain, and the pole-support forms a convenient and safe support and protection for the body, of whatever style suitable may be employed.

In Figs. 3 and 4 I have shown how the pole-

support D may be trussed by employing an- 50 other bar, D', like the bar D, and shouldered bolts or studs r, between the bars at suitable intervals, securing said bars separated from each other and parallel with each other, or approximately so. Fig. 4 shows one side and a  
55 part of the front bow, and the broken Fig. 3 shows the central portion of the bow or front side of the pole-support when trussed at the point where the pole is attached.

I deem the trussing of the pole-support, 60 either all around, as here shown, or only in front, very important, in view of additional strength and convenience in the attachment of the pole.

Having thus described my invention, what 65 I claim as new, and desire to secure by Letters Patent, is—

1. In a vehicle, the tongue-support composed of two U form parallel bars, one above the other and continuous from their attach- 70 ment at one end of the axle to their attachment at the other end of the axle, and a series of trussing-studs between the bars, in combination with a tongue passed between the bars at the front and secured thereto, branching from 75 thence rearwardly and laterally and secured to the sides of the support, substantially as set forth.

2. The combination, with the vehicle-axle, of the bowed tongue-support and a tongue or 80 pole attached to the front side of the support, thence extending rearwardly and branching both ways in a lateral curve integral with the tongue, the free ends of the branches being attached to the sides of the pole-support, sub- 85 stantially as set forth.

3. The combination, with a two-wheeled vehicle axle and suspended body, of a trussed tongue-support surrounding the sides and front of the body, and a tongue attached to the 90 support, substantially as set forth.

In testimony of the foregoing I have hereunto subscribed my name in presence of two witnesses.

CHARLES W. NOYES.

Witnesses:

JOSEPH A. FRANKLIN,

EDWARD VROEGINDEWIZ.