

(No Model.)

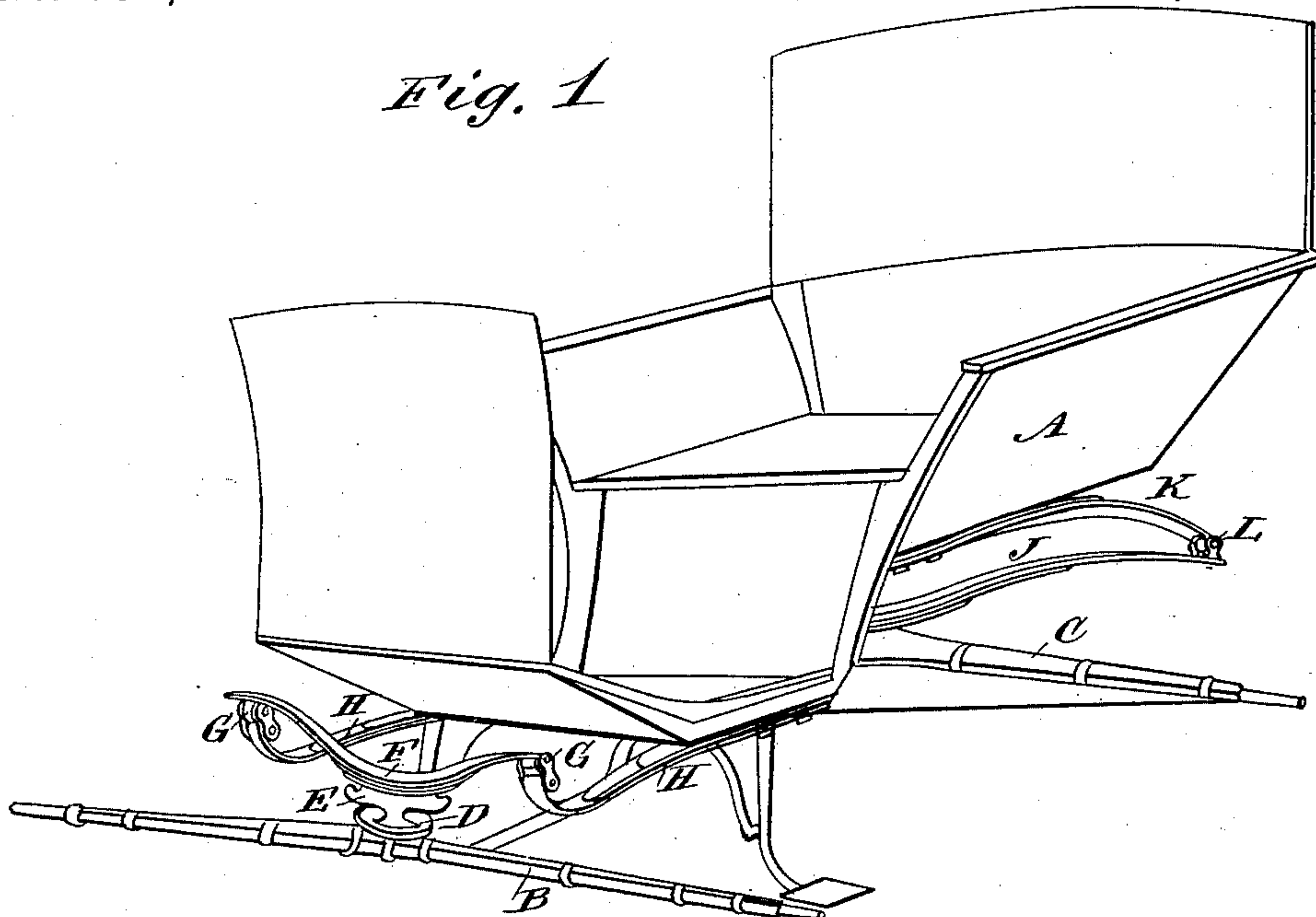
W. J. WAYNE.

PHAETON SPRING.

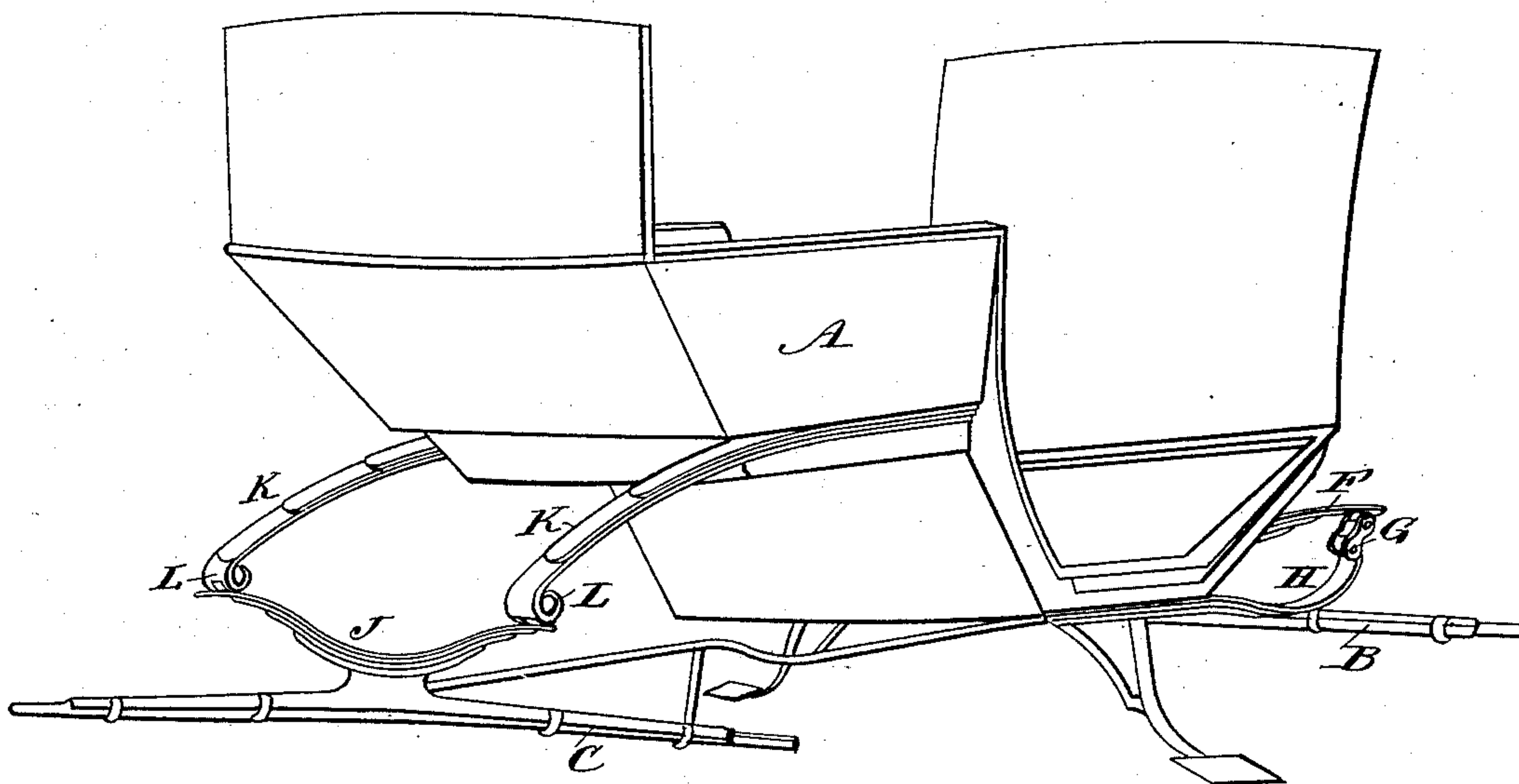
No. 338,452.

Patented Mar. 23, 1886.

*Fig. 1*



*Fig. 2*



WITNESSES:

*C. Neveu*  
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# UNITED STATES PATENT OFFICE.

WILLIAM J. WAYNE, OF DECATUR, ILLINOIS.

## PHAETON-SPRING.

SPECIFICATION forming part of Letters Patent No. 338,452, dated March 23, 1886.

Application filed July 21, 1885. Serial No. 172,195. (No model.)

*To all whom it may concern:*

Be it known that I, WILLIAM J. WAYNE, of Decatur, in the county of Macon and State of Illinois, have invented a new and useful  
5 Improvement in Phaeton-Springs, of which the following is a full, clear, and exact description.

The object of my invention is to provide certain new and useful improvements in phaeton-springs, whereby the construction of the  
10 vehicle is simplified, the strength increased, and the disagreeable cart motion avoided.

The invention consists in the peculiar construction and arrangement of parts, as hereinafter fully described, and pointed out in the  
15 claim.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar letters of reference indicate  
20 corresponding parts in both the figures.

Figure 1 is a front perspective view of a phaeton provided with my improved springs. Fig. 2 is a rear perspective view of the same.

The phaeton body or box A is constructed  
25 in any well-known manner, and is supported by the front and rear axles, B and C, the front axle being provided with the fifth-wheel D, supporting the head-block E. On the said block a half-elliptic spring, F, is secured, the  
30 ends of which are bent upward, and their ends are connected by shackle-joints G with the front ends of quarter-elliptic springs H, secured on the under side of the body at the front and projecting from the front of the body.  
35 The springs H can be secured on the under side of the body a greater or less distance from the side edges of the same.

On the rear axle, C, a half-elliptic spring, J, is secured, and to the ends of the same the rear downwardly-projecting ends of quarter-  
40 elliptic springs K are coupled by means of knuckle-joints L, which springs K are secured to the under side of the body or box at the rear.

By constructing the phaeton in the manner  
45 described, high buggy-wheels can be used, the vehicle can be turned very short, and is cheap.

The shackles G, or any other like connection used in place of them, permit of the ex-  
50 pansion and contraction of the springs. If desired, an elliptic spring may be used at one end of the vehicle in place of the spring shown.

I am aware that short springs secured to the body of a vehicle, with their projecting  
55 ends secured to half-elliptical springs at the front and rear by shackles, are old, and I therefore do not claim such invention.

Having thus described my invention, I claim  
as new and desire to secure by Letters Patent— 60

The combination, with a vehicle-body and front and rear springs, F J, of the front quarter-elliptical springs, H, secured to the body and to the springs F by shackles G, and the rear quarter-elliptical springs, K, secured to  
65 the body and to the spring J by knuckle-joints L, substantially as herein shown and described.

WILLIAM J. WAYNE.

Witnesses:

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