

F. A. HUNTINGTON.

Carriage Spring.

No. 85,008.

Patented Dec. 15, 1868.

Fig:1.

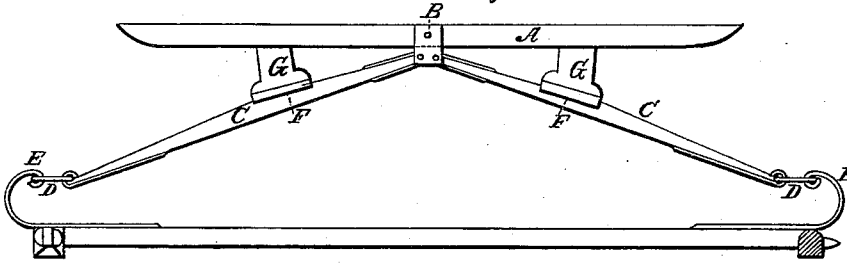


Fig:2.

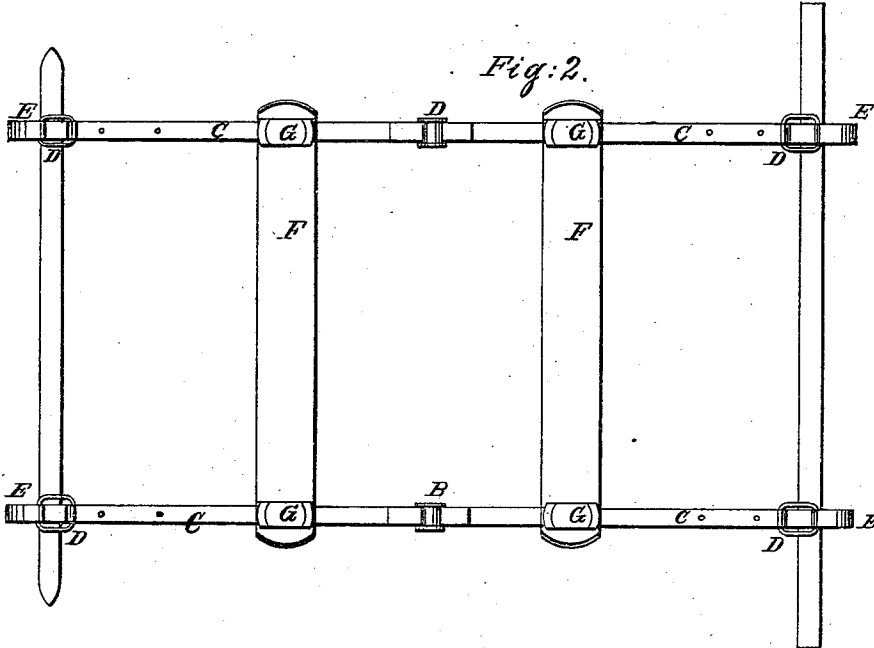
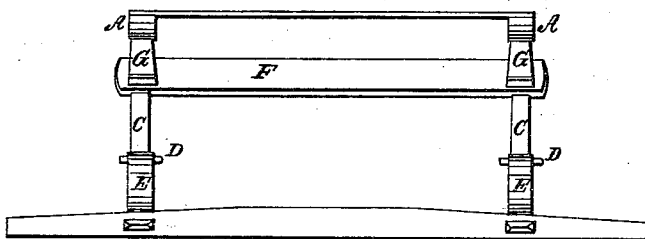


Fig:3.



Witnesses:
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Inventor:
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FRANK A. HUNTINGTON, OF SAN FRANCISCO, CALIFORNIA.

Letters Patent No. 85,008, dated December 15, 1868.

IMPROVED CARRIAGE-SPRING.

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, FRANK A. HUNTINGTON, of the city and county of San Francisco, State of California, have invented an Improved Carriage-Spring; and I do hereby declare the following description and accompanying drawings are sufficient to enable any person skilled in the art or science to which it most nearly appertains, to make and use my said invention or improvements without further invention or experiment.

The object of my invention is to provide an improved carriage-spring, so constructed that a weight placed on any part of the carriage will depress the springs on each side equally, creating no undue strain on any portion, and so arranged and applied as to impart to the carriage the greatest elasticity, without impairing its strength; and

It consists in employing separate springs or levers for each end of the carriage, one end of which is pivoted to a clip, which is attached to the centre of the body on each side, the opposite ends being secured by shackles to curved pieces of metal attached to the bolster and axle-bed. A bar passes from the lever on one side to the lever on the other, a short distance from and on each side of the clip-connection, and springs or bumpers, made of India rubber or other elastic material, are placed at each end of the cross-bars, upon which the body rests.

To more fully illustrate and describe my invention, reference is had to the accompanying drawings, and letters marked thereon, of which—

Figure 1 is a side view.

Figure 2 is a plan.

Figure 3 is an end view.

A is the body-rail of a buggy, around the centre of

which the clip B passes. Straight bars or levers O O, made of wood or metal, have their ends pivoted to this clip, the opposite end being secured, by shackles D D, to the end of curved metal bars E E, attached to the ends of the reaches, over the bolster and axle-bed, thus forming two levers on each side, having their fulcrum at the point of attachment to the body of the carriage.

Bars F F pass across from one spring to the other, having their ends resting on the levers at each side, a short distance from the clip-attachment.

Springs or bumpers G G, made of India rubber or other elastic material, are secured to the ends of the bars F F, and are so placed that they receive the weight placed in the carriage. The levers being so attached at each end, that they will give until brought up by the body compressing the rubber springs, there can be no unequal strain upon any part, no difference in what part of the buggy the weight may be placed.

By this construction, a light, easy, and durable buggy or carriage may be made, cheap and simple in construction, and neat in appearance.

Having thus described my invention,

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

The rigid levers O O and springs G G, in combination with the adjustable bars F F, the whole arranged substantially in the manner and for the purposes described.

In witness whereof, I have hereunto set my hand and seal.

FRANK A. HUNTINGTON. [L. s.]

Witnesses:

J. L. BOONE,

GEO. H. STRONG.