

(No Model.)

J. M. BROMLEY.

VEHICLE SPRING.

No. 259,664.

Patented June 20, 1882.

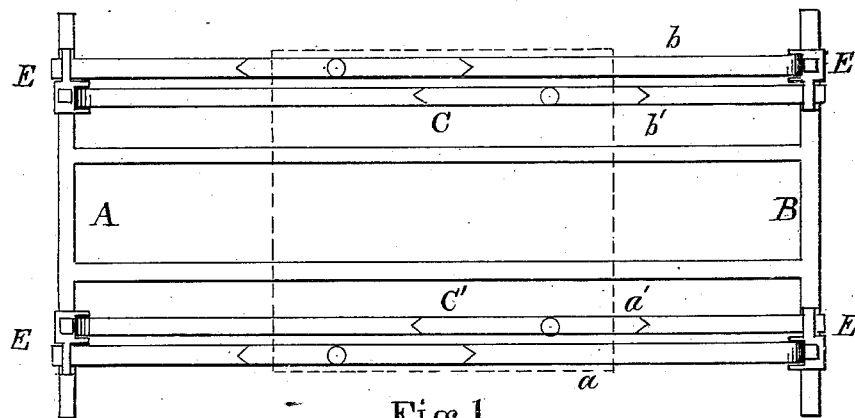


Fig. 1.

Fig. 2.

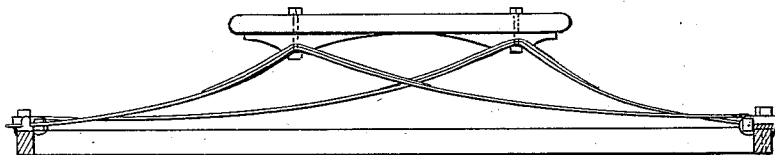


Fig. 3.

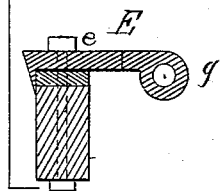
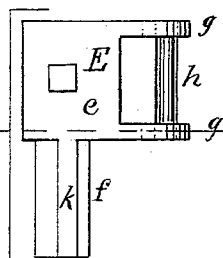
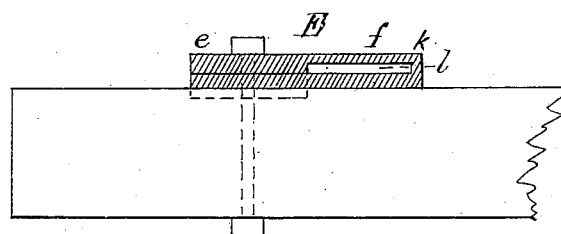


Fig. 4.



Attest

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UNITED STATES PATENT OFFICE.

JAMES M. BROMLEY, OF PLATTSBURG, NEW YORK, ASSIGNOR TO WILLIAM
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VEHICLE-SPRING.

SPECIFICATION forming part of Letters Patent No. 259,664, dated June 20, 1882.

Application filed March 31, 1882. (No model.)

To all whom it may concern:

Be it known that I, JAMES M. BROMLEY, of Plattsburg, in the county of Clinton and State of New York, have invented certain new and useful Improvements in Vehicle-Springs; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

Figure 1 represents a top view of the springs in place; Fig. 2, a side view; Figs. 3 and 4, top and sectional views of the shackle.

This invention relates to improvements in "side-spring" vehicles, more particularly to the shackles for securing such springs.

The object of the invention is the production of a shackle which will hold the spring in place and yet allow such freedom of action as to preclude the possibility of breaking.

The invention consists in the construction hereinafter set forth.

In the annexed drawings, the letter A represents the head-block, and B the rear axle.

C C' are pairs of springs, consisting of the individual springs *a a' b b'*, which support the body. Their construction and arrangement are fully set forth in an application of like date with this, and need no further description.

Secured to the head-block and axle by bolts

or clips are the improved slide-shackles E. The shackle is formed all in one piece, but has two distinct members, *e f*. The former, *e*, has two perforated lugs, *g g*, which project inwardly, and to which is secured by a bolt, *h*, one end of one of the springs. The other, *f*, has on top a rectangular bar, *k*, which forms a slot, *l*, in which loosely rests the other end of the twin spring of the pair. By this construction it will appear that one end of each spring is held firmly in place between the lugs *g g*, while its other end is loose in slot *l*. Hence as the springs are brought into action the free ends slide easily in the slots *l*, and cause the springs to accommodate themselves to any excessive action to which they may be subjected.

Having described my invention, what I claim is—

1. The shackle E, having perforated lugs *g* and the slot *l*, as set forth.
2. A pair of springs, in combination with the slide-shackles E, one end of each spring being secured and the other resting loosely in its shackle, as shown.

In testimony that I claim the foregoing as my own I hereto affix my signature in presence of two witnesses.

JAMES MEAD BROMLEY.

Witnesses:

W. J. McCaffrey,
Thomas Brady.