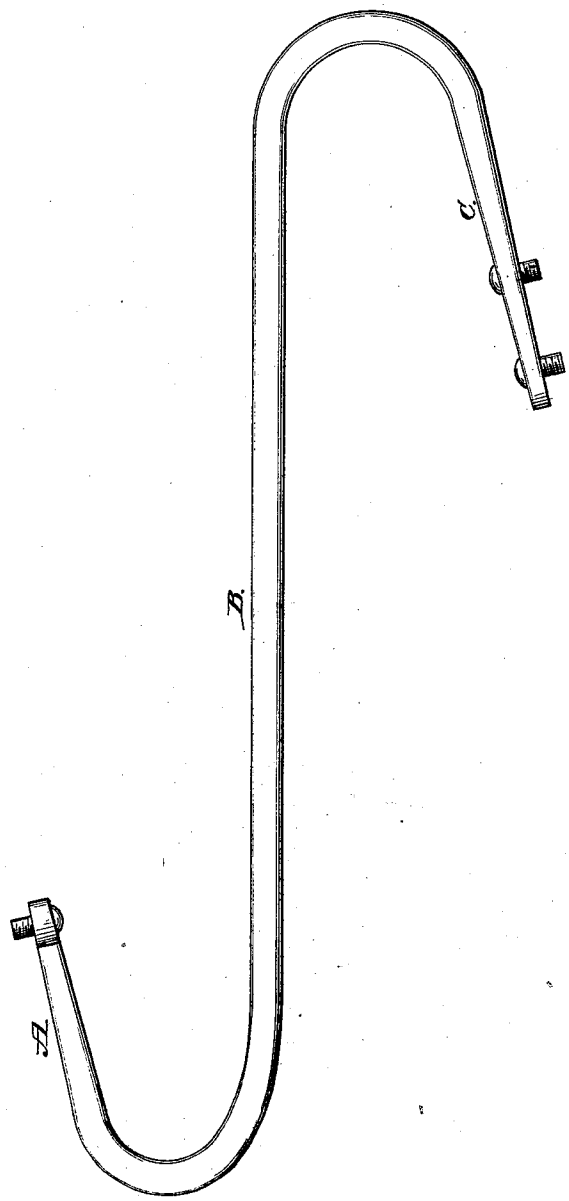
N. A. NEWTON.

CARRIAGE SPRING BRACE.

No. 173,134. Patented Feb. 8, 1876.



Attest:

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UNITED STATES PATENT OFFICE.

NELSON A. NEWTON, OF KALAMAZOO, MICHIGAN.

IMPROVEMENT IN CARRIAGE-SPRING BRACES.

Specification forming part of Letters Patent No. **173,134**, dated February 8, 1876; application filed October 23, 1875.

To all whom it may concern:

Be it known that I, NELSON A. NEWTON, of Kalamazoo, in the county of Kalamazoo and State of Michigan, have invented a new and useful Improvement in Carriage-Spring Supporters; and I do hereby declare that the following is a full and exact description of the same, reference being had to the accompanying drawing and to the letters of reference marked thereon.

This invention has for its object the production of a simple device for preventing carriage-springs from being unduly strained latterly by the pitching forward or backward of the carriage-body; and consists simply in the combination of a steel bar of a particular shape attached to the body of the carriage at one end, and to the axle or reach at the other, as will be fully described hereinafter.

In the drawing a side elevation of my improved device is represented.

To enable others skilled in the art to make and use my invention I will now proceed to describe fully its construction and manner of operation.

B represents the device as used, and consists of a round bar of steel crooked at each end, as shown in the drawing at *a* and *c*. The end *c* of the device is securely fastened with bolts or screws in a proper manner on the bottom of the carriage-body at about its center. The opposite end *a* is bolted to the reach at the second bolt forward the hind axle, or it may be to the axle.

The operation of this device is very simple and effective, and will be readily comprehended.

The supporter springs with the movement of the carriage-body freely up and down, while it prevents any lateral motion. The crooks at the ends *a* and *c* being alike in length and shape, in operating they compensate each other in the springs, and hold the body firmly in the same position as at rest; and it also adjusts itself to the different inclines assumed by the carriage-body when one spring is depressed more than another, such adjustment being permitted by the supporter acting as a spring, and renders it impossible to strain the carriage-springs laterally by the pitching forward or backward of the carriage-body.

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

The device as described, consisting of the steel bar B, crooked at each end *a* and *c*, constructed substantially as described, for the purpose set forth.

N. A. NEWTON.

Witnesses:
O. T. TUTHILL,
JOHN WOOSTER.