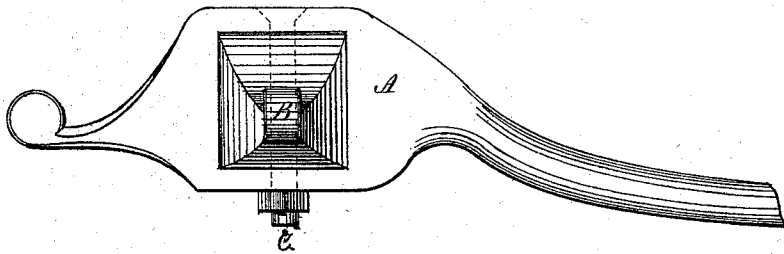


F. A. COWLES.  
Carriage Iron.

No.100,864.

Patented March 15, 1870.



Witnesses.

*Alfred M. ...*  
*Samuel J. ...*

Inventor.

*Fredrick A. Cowles*  
by *Prindle & Dyer*  
Attys.

# United States Patent Office.

FREDRICK A. COWLES, OF PLANTSVILLE, ASSIGNOR TO HIMSELF AND  
J. B. SAVAGE, OF SOUTHTON, CONNECTICUT.

*Letters Patent No. 100,864, dated March 15, 1870.*

## IMPROVED BODY-LOOP FOR CARRIAGES.

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, FREDRICK A. COWLES, of Plantsville, in the county of Hartford, and in the State of Connecticut, have invented a new and useful Improvement in Body-Loops for Carriages; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing making a part of this specification, in which is shown a side elevation of my improved device, as applied to the spring-bar.

My invention relates to a class of devices termed "body-loops," used for suspending the body of a carriage from the spring-bars; and

It consists in the peculiar form and construction of said loop, whereby it is enabled to embrace said spring-bar upon all sides, as is hereinafter set forth.

As ordinarily constructed, the body-loop is formed of a flat or rectangular bar of metal, which, extending outward from the body, rests upon the upper side of the spring-bar, and is secured thereto by means of a bolt passing downward through both parts.

This method of attaching the loop and spring-bar is, however, open to serious objections, as, in case that the nut works off from the bolt used for securing the parts together, a sudden jolt may lift the end of the loop from the spring-bar, and wrench and perhaps break the other body-loops.

To obviate these objections, and insure the absolute safety of the connection between the body-loop and spring-bar, while unbroken, I increase the depth of said loop, A, and provide in and through the same

a horizontal opening, corresponding in size and shape with that portion of the spring-bar B in immediate contact with said loop, so as to permit the latter to be passed over and inclose the former, as shown in the drawing.

When thus constructed and combined, a bolt, C, passing downward through the loop and spring-bar, secures them firmly together, and prevents their accidental separation so long as neither are broken.

It will be seen that as the body-loops are placed in position upon the spring-bar by being passed over its ends, the removal of one or all of the bolts connecting said parts together would not permit of their separation so long as said loops were attached to the body, and that thereby all liability to such accident is prevented.

Having thus fully set forth the nature and merits of my invention,

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

As a new article of manufacture, the body-loop A, constructed in one piece, so as to embrace or surround the spring-bar B, substantially as and for the purpose specified.

In testimony that I claim the foregoing, I have hereunto set my hand this 14th day of February, 1870.

FREDRICK A. COWLES.

Witnesses:

HENRY R. BRADLEY,  
J. FLETCHER, Jr.