

R. W. McCLELLAND.

Body-Loop.

No. 162,670.

Patented April 27, 1875.

Fig. 1.

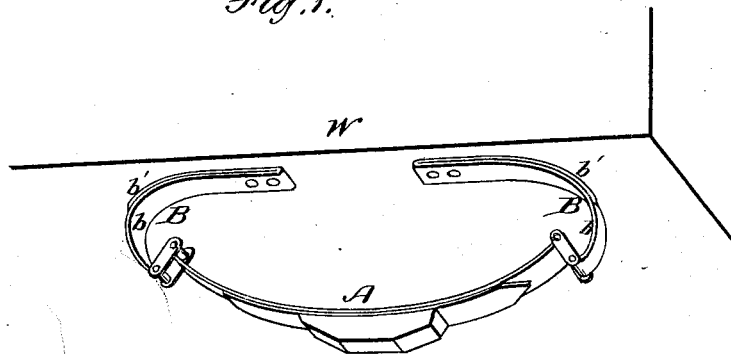
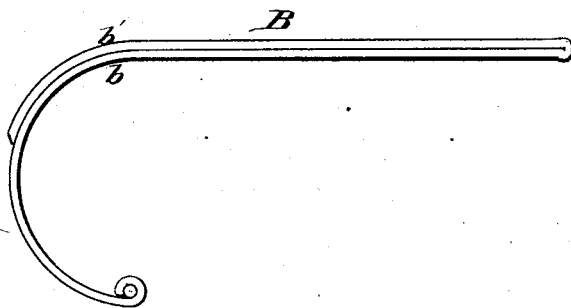


Fig. 2.



Witnesses.

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UNITED STATES PATENT OFFICE.

ROBERT W. McCLELLAND, OF CERRO GORDO, ILLINOIS.

IMPROVEMENT IN BODY-LOOPS.

Specification forming part of Letters Patent No. **162,670**, dated April 27, 1875; application filed October 30, 1874.

CASE 1.

To all whom it may concern:

Be it known that I, ROBERT W. McCLELLAND, of Cerro Gordo, in the county of Piatt and State of Illinois, have invented an Improved Body-Loop for Carriage-Springs; and I do hereby declare the following to be a full and exact description of the same, reference being had to the accompanying drawings, forming a part of this specification, in which—

Figure 1 is a perspective view of my improved body-loops applied to a carriage-spring, and Fig. 2 a sectional view of one of the loops detached.

Similar letters of reference in the accompanying drawings denote the same parts.

My invention relates to the loops or arms employed for connecting semi-elliptic springs to wagon or carriage bodies, in what is known as platform-gearing, these arms having usually been made rigid.

My invention has for its object to so improve the construction of such loops or arms as to render them elastic without materially increasing their cost. To this end it consists of a body-loop composed of a single piece of spring-steel bent back upon itself, so as to form two leaves, and attached at one end to the wagon-body and at the other to the spring, as I will now proceed to describe.

In the drawings, A represents a semi-elliptic spring of ordinary construction, and B B the loops connecting it to the wagon-body W. The loops B are each composed of a single piece of spring-steel or other suitable metal folded back upon itself, so as to form two leaves, *b b'*, which are curved downward, the lower leaf *b* being attached to the spring A, as shown. The loop B is suitably secured to the wagon-body at its bent or folded end, the remaining portion being free to rise and fall.

An elastic body-loop is thus produced, which greatly enhances the ease of the wagon, without impairing the strength of the springs or materially increasing their cost.

I claim as my invention—

1. The spring body-loop B, composed of a single piece of steel bent or folded back on itself to form two leaves, *b b'*, the folded portion being adapted for attachment to the wagon-body, substantially as described.

2. The loops B B, having leaves *b b'*, in combination with the spring A and wagon-body W, substantially as and for the purpose specified.

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Witnesses:

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