

A. A. LIVINGSTON.
Stay-Iron for Wagon-Bodies.

Patented Jan. 26, 1875.

No. 159,033.

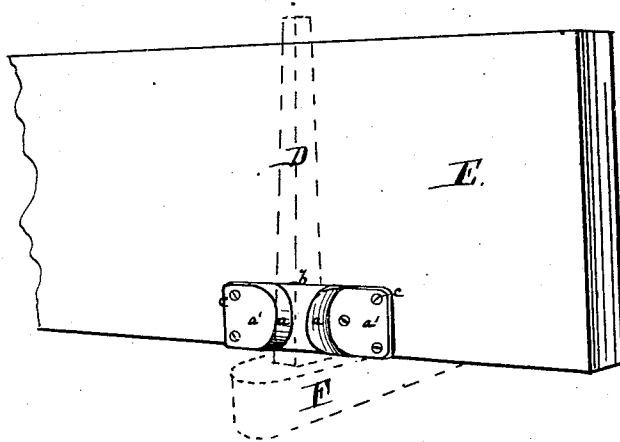


Fig. 1.

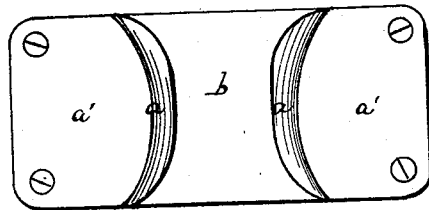


Fig. 2.

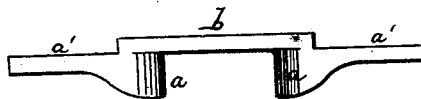


Fig. 3.

Witnesses:

A. H. Kleminger
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UNITED STATES PATENT OFFICE.

AUGUSTUS A. LIVINGSTON, OF WILMINGTON, ILLINOIS.

IMPROVEMENT IN STAY-IRONS FOR WAGON-BODIES.

Specification forming part of Letters Patent No. **159,033**, dated January 26, 1875; application filed October 20, 1874.

To all whom it may concern:

Be it known that I, AUGUSTUS A. LIVINGSTON, of Wilmington, in the county of Will and State of Illinois, have invented an Improved Stay-Iron for Wagon-Boxes, of which the following is a specification:

This invention relates to an iron plate or stay-iron, with which the farm-wagon is to be shod at the points where it comes in contact with the stakes which arise from the bolsters. This plate is so embedded in the wagon-box as to render it difficult to wrench it from its position by any strain to which it will be exposed, and it is so constructed that it receives the wear usually exerted upon the wagon-box at the points where the latter is most likely to be worn through. Its nature and construction will be fully understood from the subjoined description, and the accompanying drawing, forming a part of this specification.

In said drawing, Figure 1 is a perspective view of my improvement, showing it as it appears when attached to the wagon-box. Fig. 2 is a front view, and Fig. 3 a plan view, of the same, detached from the wagon-box.

Like letters of reference used in said drawing indicate like parts in all the figures.

In Fig. 1, E represents the side of the wagon-box; D, (in dotted lines,) the stake; and F, (also in dotted lines,) the bolster. *a a*, wherever they occur, represent the projections

upon the plate which prevent the motion of the wagon-box. They are cast upon the beds *a' a'*, which are secured to the wagon-box by means of the screws *c c*. *b* is a plate, which is set into the wagon-box. It is formed in one piece with the projections *a a* and their respective bed pieces, and connects and mutually strengthens them.

It will be noticed that the faces of the projections *a a*, which are presented to the stake, are curved. This peculiar formation allows freedom of movement, up and down, of the box, and obviates the binding upon the stake which occurs when but one end or one corner of the box is raised. Another advantage attending my improvement is the firmness of the attachment between the plate and the box, arising from the fact that the plate *b* is sunk its thickness into the box.

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

The stay-iron formed of the projections *a a*, connected by the plate *b*, said projections made curved, and the plate *b* let into the wagon-box, substantially as specified.

AUGUSTUS A. LIVINGSTON.

Witnesses:

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