

E. A. COOPER.
CARRIAGE-STEP.

No. 176,284.

Patented April 18, 1876.

Fig. 1.

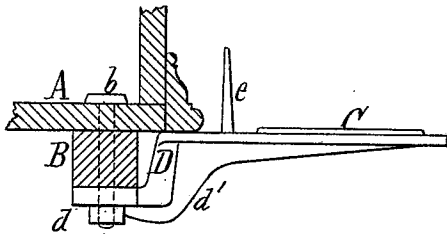


Fig. 2.

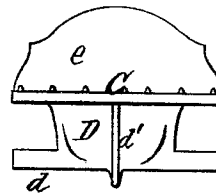
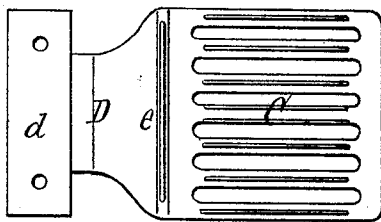


Fig. 3.



Chas. J. Buchheit
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EDWARD A. COOPER, OF LANCASTER, ASSIGNOR TO PRATT & LETCHWORTH,
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IMPROVEMENT IN CARRIAGE-STEPS.

Specification forming part of Letters Patent No. 176,284, dated April 18, 1876; application filed
March 6, 1876.

To all whom it may concern:

Be it known that I, EDWARD A. COOPER, of Lancaster, in the county of Erie and State of New York, have invented certain new and useful Improvements in Carriage-Steps, which improvements are fully set forth in the following specification, reference being had to the accompanying drawing.

The object of my invention is to overcome these difficulties; and it consists of the peculiar construction of the carriage-step, as will be hereinafter more fully set forth.

In the accompanying drawing, Figure 1 is a side elevation of my improved step, with the body-loop and a portion of the body in section. Fig. 2 is a front elevation of the step. Fig. 3 is a top plan view thereof.

Like letters of reference refer to like parts in each of the figures.

A represents a portion of the wooden body or box of the buggy, wagon, or other vehicle. B represents one of the metallic body-loops to which the box A is secured by bolts *b*. C represents the plate of the step, which may be of any suitable shape, and D the shank cast in one piece therewith. The shank D is made of angular form, and provided at its lower end with a plate, *d*, adapted to be secured to the under side of the body-loop B, and provided with bolt-holes through which pass the fastening-bolts *b*. The shank is preferably

provided on its under side with a strengthening-rib, *d'*. *e* represents the guard-plate, cast with the step-plate C at its rear end, so as to project upwardly and prevent the feet from coming in contact with the wood-work, thereby preventing the disfiguration of the latter. The distance between the plate *d* and the upper surface of the horizontal portion of the bent shank D is equal to the height of the body-loop B, so that when the plate *d* is secured to the under side of the body-loop the shank D will bear with its horizontal portion under the projecting portion of the wood-work, as clearly shown in Fig. 1.

My improved step is readily secured to the vehicle in a most substantial and durable manner without requiring any additional bolt-holes to be formed in the wooden body of the vehicle, thus forming a stronger and neater step than heretofore produced.

What I claim as my invention is—

A carriage-step composed of a tread, C, bent shank D, guard *e*, and horizontal plate, *d*, formed in one piece and adapted to be secured in position, substantially as and for the purpose hereinbefore set forth.

E. A. COOPER.

Witnesses:

EDWARD WILHELM,
CHAS. J. BUCKHEIT.