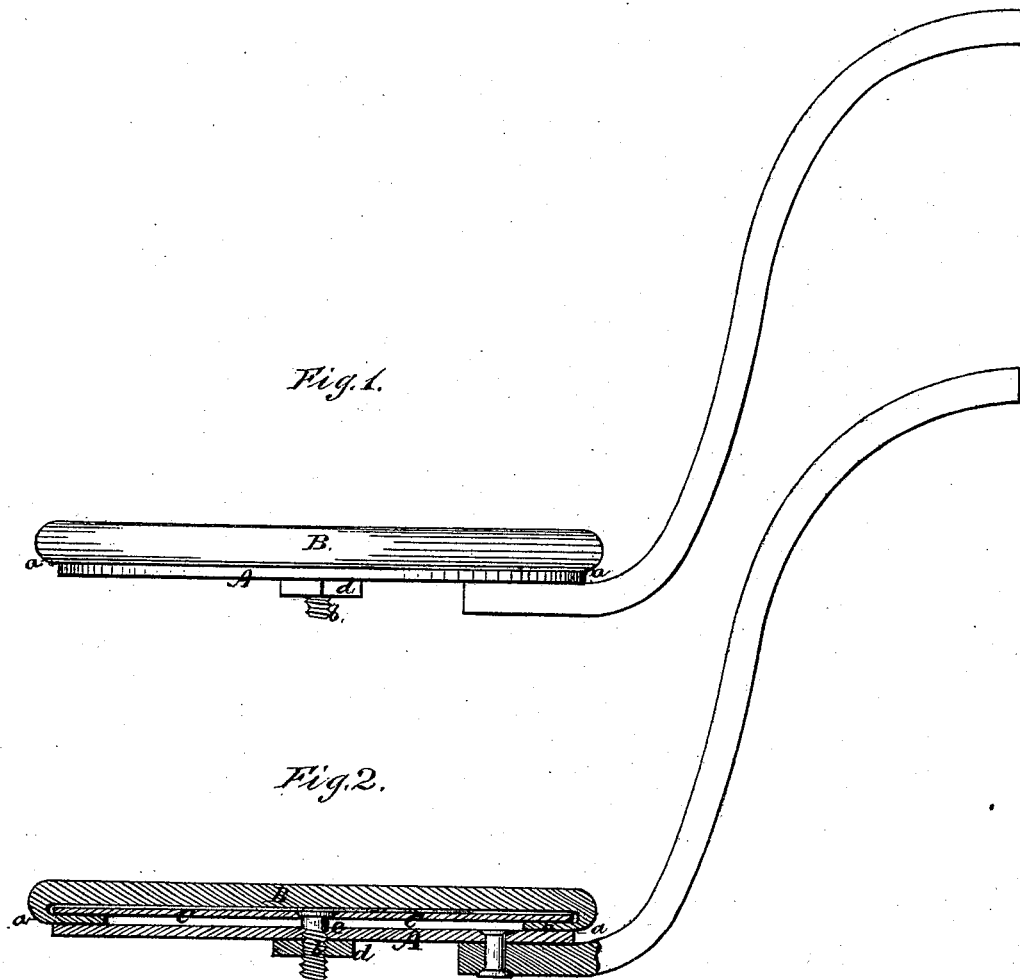


C. H. GOULD.  
Carriage Step.

No. 107,482.

Patented Sept. 20, 1870.



Witnesses,  
D. J. Brown  
C. A. Hartenese

Inventor,  
Charles H. Gould,  
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# United States Patent Office.

CHARLES H. GOULD, OF BOSTON, MASSACHUSETTS, ASSIGNOR TO HIMSELF  
AND WILLIAM LUMB, OF SAME PLACE.

*Letters Patent No. 107,482, dated September 20, 1870.*

## IMPROVEMENT IN SHIELDS FOR CARRIAGE-STEPS.

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, CHARLES H. GOULD, of Boston, in the county of Suffolk and State of Massachusetts, have invented an Improved Shield for Carriage-Steps; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawing making a part of this specification—

Figure 1 being a side view of a carriage-step provided with my improved shield, and

Figure 2, a central vertical section of the same.

Like letters designate corresponding parts in both figures.

Various modes of applying India-rubber shields or coverings to carriage-steps, to prevent slipping and to give more softness and elasticity to the step, have been devised, but they are all more or less objectionable in different ways, either because they are expensive or not easily applicable, removable, or replaceable, or because the edges are exposed, or some metal, either of the step or of the shield-fastening, is exposed, so that the shield is not fully effectual. My invention obviates all of these objections; and

It consists in a shield which fits over and around the edge or edges of a metallic disk or plate, so that, when the disk or plate is applied to the top of the carriage-step, the lip turned under shall come between the disk and the step, and thereby not only be held securely, but give additional elasticity and softness to the shield.

In the accompanying drawing—

Let A represent a carriage-step.

The shield B, of India rubber, or equivalent substance or composition, is (preferably) molded or other-

wise formed so that it will cover and fit around and under the edge or edges of a metallic disk or plate, C, its edge or edges forming a lip or lips, *a*, which shall extend a short distance under the lower surface of the disk or plate.

The plate C may have about the same form and size as the carriage-step A. As a means of fastening this disk or plate to the step, I find it suitable and simple to provide a screw, *b*, secured to the middle of the disk's lower surface, and then, by drilling a hole, *c*, through the middle of the carriage-step, and inserting the screw *b* therein, the disk is firmly held to the step by screwing a nut, *d*, upon the screw under the step. The edge *a* of the shield is thus clamped between the disk and step.

Thus, not only is a neat-looking shield produced, the edge (or edges) of which is not visible, and no metallic surface is presented on the top of or around it, to slip on, but the shield is easily attached to any carriage-step, and can as easily be taken off and replaced.

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

The shield B, having the lip *a* thereon, together with the disk or plate C, formed and arranged substantially as described, and secured to a carriage-step, A, in the manner and for the purpose herein specified.

Specification signed by me May 25, 1870.

CHARLES H. GOULD.

Witnesses:

JOSIAH W. HUBBARD,

CHAS. H. LEWIS.