

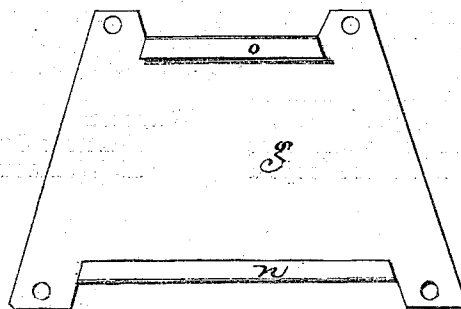
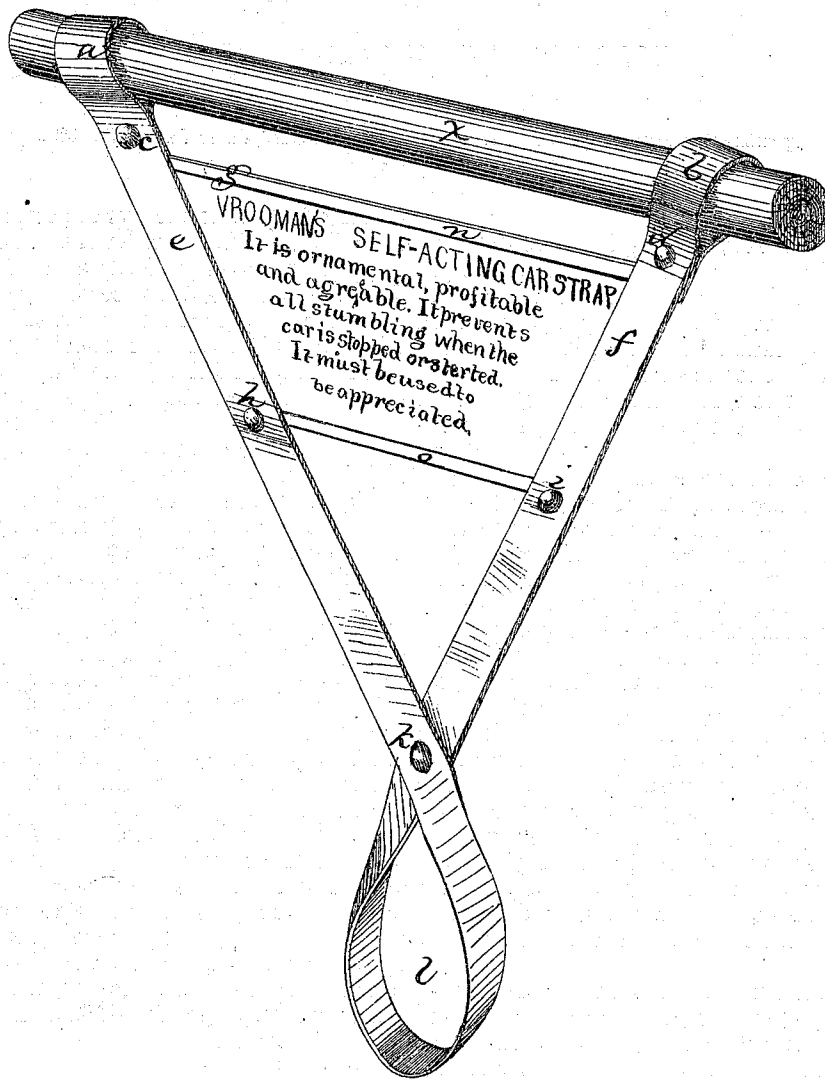
(121.)

HENRY S. VROOMAN.

Improvement in Car Straps.

No. 122,417.

Patented Jan. 2, 1872.



Witnesses.
M. W. Frothingham.
L. B. Kidder.

H. S. Vrooman
By his Atty.
Crosby & Gould.

UNITED STATES PATENT OFFICE.

HENRY S. VROOMAN, OF BOSTON, MASSACHUSETTS.

IMPROVEMENT IN CAR-STRAPS.

Specification forming part of Letters Patent No. 122,417, dated January 2, 1872.

To all whom it may concern:

Be it known that I, HENRY S. VROOMAN, of Boston, in the county of Suffolk and State of Massachusetts, have invented an Improvement in Car-Straps; and I do hereby declare that the following, taken in connection with the drawing which accompanies and forms part of this specification, is a description of my invention sufficient to enable those skilled in the art to practice it.

United States Letters Patent No. 77,338 were granted to me, dated April 28, 1868, for an improved hold-strap or support for railway cars, the common pendent strap attached to the horizontal rod running lengthwise through the upper part of a horse-car being shown in my said patent as improved, by making it with a two-fold attachment to the rod, the two points of attachment being at some distance apart, and the two parts of the strap crossing or uniting below, so as to form a loop or hand-hold at the bottom of the strap. Such straps have been found to be greatly superior to the common loosely-swinging straps in the firm support they give to a standing passenger as the car moves, and when it suddenly stops, and also when the car is crowded, or passengers have to move by each other, or along the car, or have to stand erect while others crowd by them.

My present improvement relates particularly to the employment of my improved strap as a vehicle or holder for an advertising card, or for a frame or plate designed to carry such a card, the improvement also consisting in connecting the two spreading branches of the strap (below the rod) at more than two points, so as to more effectually hold them in relative position.

The drawing represents one of my patented straps embodying my present improvement.

a b denote the two upper loops, by which the strap is attached to the car-rod *x*, the loops *a*

b being formed at the two opposite ends of the strap by doubling over each end and securing it to the main part of the strap by a rivet, *c*, or *d*, the two rivets also securing the two parts *e f* of the strap to the opposite ends of a cross-bar or plate, *g*, which connects the two parts of the strap and holds them apart or in relative position, as seen in the drawing and in my aforesaid patent. In my present construction I make the connecting-bar or plate *g* wide and rivet to the strap, not only at the two upper corners, but at the lower corners, as seen at *h i*, the plate being preferably narrowed from the top, so that the two parts of the strap may readily cross and be riveted at *k*, leaving or forming the hand-hold *l* below the rivet.

Upon the front of the plate *g* I place the card *m*, having printed, inscribed, or painted upon it any advertisement or representation, the plate being preferably made with lips *n o*, to secure the card in place, and the straps also preferably lapping over the opposite ends of the card. The card or advertisement may be painted or printed directly upon the plate, but I prefer the inserted card. It will be obvious that a firmer support is given to the strap by widening the connecting-plate or bar and increasing the points of its attachment to the straps; and I not only obtain this advantage by using the wide plate, but I also obtain a much better receptacle for a card than would be afforded by the narrow bar shown in my aforesaid patent.

I claim—

A car-strap having the two rod-attaching loops *a b*, united and kept apart by a rigid plate or connection, *g*, when such plate is made with lips *n o*, for holding an advertising card, substantially as shown and described.

HENRY S. VROOMAN.

Witnesses:

FRANCIS GOULD,
M. W. FROTHINGHAM.

(121)