

(No Model.)

H. COCHRAN.
CORNER STAY FOR CARS.

No. 470,392.

Patented Mar. 8, 1892.

Fig. 1.

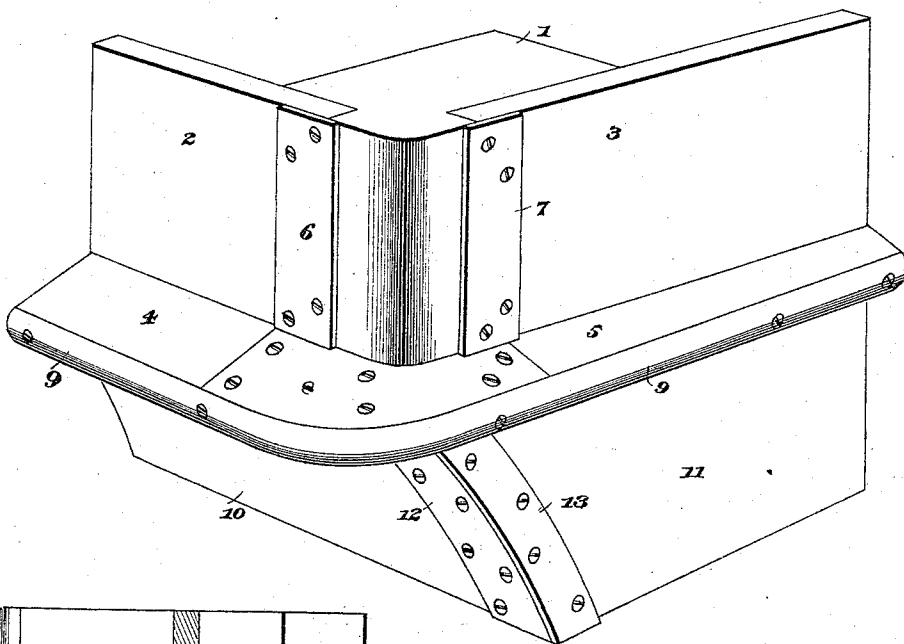
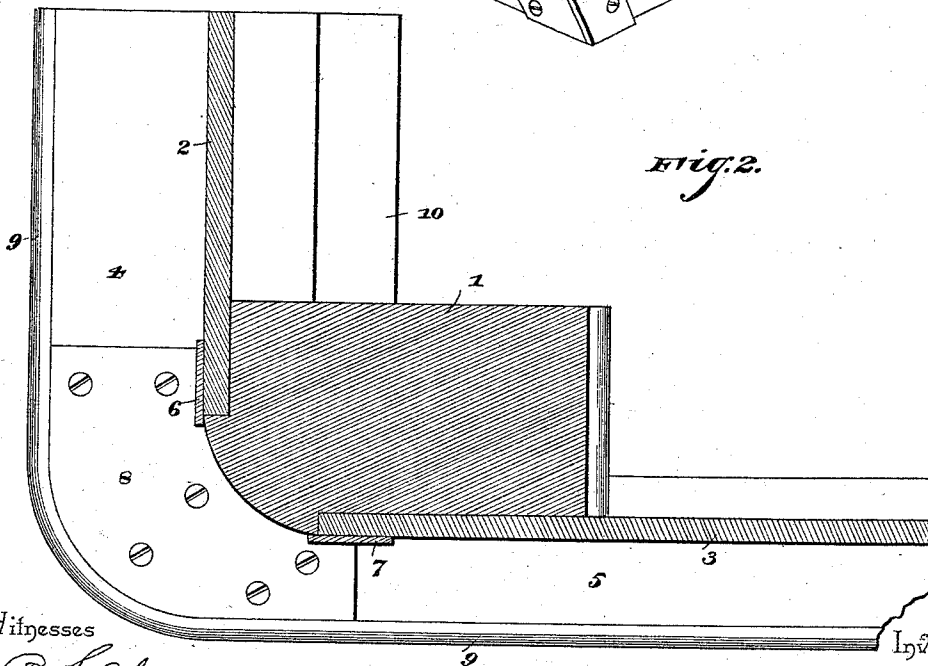


Fig. 2.



Witnesses

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By *his* Attorneys,

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Inventor

UNITED STATES PATENT OFFICE.

HENRY COCHRAN, OF CHESTER, PENNSYLVANIA.

CORNER-STAY FOR CARS.

SPECIFICATION forming part of Letters Patent No. 470,392, dated March 8, 1892.

Application filed December 3, 1891. Serial No. 413,861. (No model.)

To all whom it may concern:

Be it known that I, HENRY COCHRAN, a citizen of the United States, residing at Chester, in the county of Delaware and State of Pennsylvania, have invented a new and useful Corner-Stay, of which the following is a specification.

The invention relates to improvements in corner-stays of cars.

The object of the present invention is to simplify and improve the means for securing the side and end guard-rails and the panels to a corner-post.

The invention consists in the construction and novel combination and arrangement of parts hereinafter fully described, illustrated in the accompanying drawings, and pointed out in the claims hereto appended.

In the drawings, Figure 1 is a perspective view of a portion of a car embodying the invention. Fig. 2 is a horizontal sectional view.

Like numerals of reference indicate corresponding parts in all the figures of the drawings.

1 designates a corner-post, which is recessed to receive the center panels 2 and 3, arranged above the side and end guard-rails 4 and 5 and having their joints covered by vertical plates 6 and 7, secured to the panels 2 and 3 by screws and projecting over the joints. The guard-rails 4 and 5 are connected by a curved plate 8, which is arranged on the upper faces of the guard-rails and is provided with perforations through which pass screws for securing the plate to the guard-rails. The plate 8 is curved to conform to the curved face of the corner-post and to the rounded edges of the meeting ends of the guard-rails and serves to cover the joint, and it greatly increases the strength and durability of the guard-rails. The guard-rails have their edges covered by a metal strap 9, which is secured in place by screws and is segmental in cross-section. The concave panel 10 and the lower panel 11 are secured to the corner-post below the guard-

rails and have their ends covered by corner-plates 12 and 13, which are slightly curved to conform to the concave panel and which have their adjacent vertical edges contiguous. The corner-plates are secured to the panels by screws which pass through suitable countersunk perforations. The arrangement of the plates on the guard-rails and the panels greatly increase the strength and durability of the structure. The upper plates 6 and 7 have their lower ends arranged against the upper faces of the guard-rails and the lower corner-plates have their upper ends arranged against the lower faces of the guard-rails, and these plates, together with the plate 8, cover the joints and exclude water to prevent the same rotting the wood.

What I claim is—

1. The combination of a corner-post, the panels, the guard-rails secured to the corner-post, and the curved plate 8, arranged on the upper faces of the meeting ends of the guard-rails and secured to the same and conforming to the configuration of the corner-post and the guard-rails, substantially as described.

2. The combination of a corner-post, the guard-rails secured to the post, the panels secured to the post and arranged above and below the guard-rails, the curved plate 8, connecting the meeting ends of the guard-rails and conforming to the configuration of the same, the upper vertically-disposed plates 6 and 7, secured to the panels 2 and 3 and projecting over the joints of the same, and the lower plates 12 and 13, secured to the ends of the lower panels and having their adjacent edges contiguous, substantially as described.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

HENRY COCHRAN.

Witnesses:

CASPER HOWARTT,
JOS. H. HINKSON.