No. 849,828.

PATENTED APR. 9, 1907.

F. McF. BRINCKERHOFF.

CAR CONSTRUCTION.

APPLICATION FILED DEC. 14, 1906.

Fig. 2.

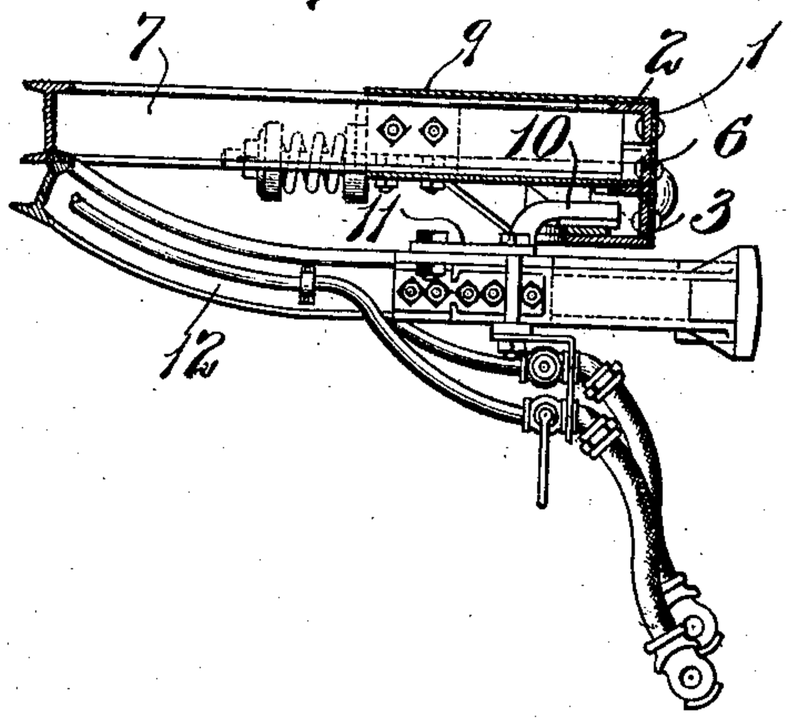


Fig. 1.

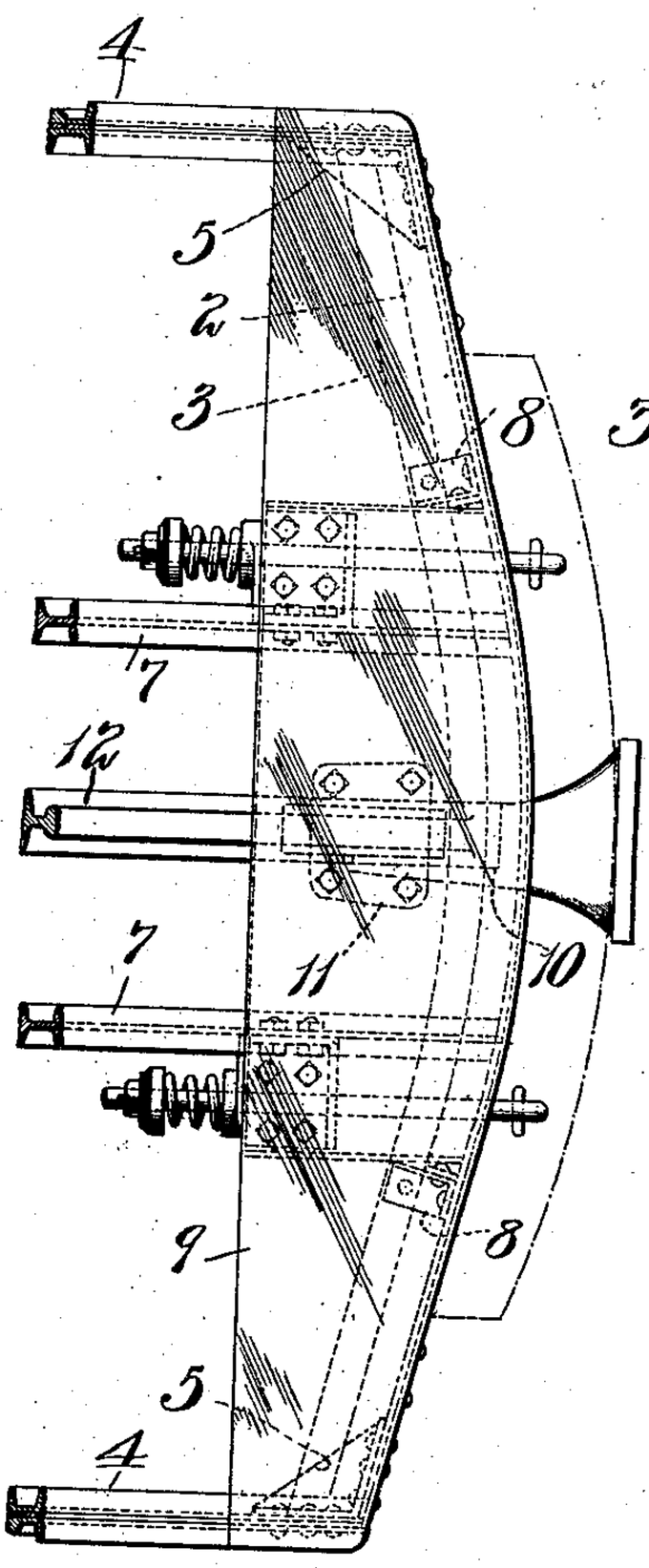
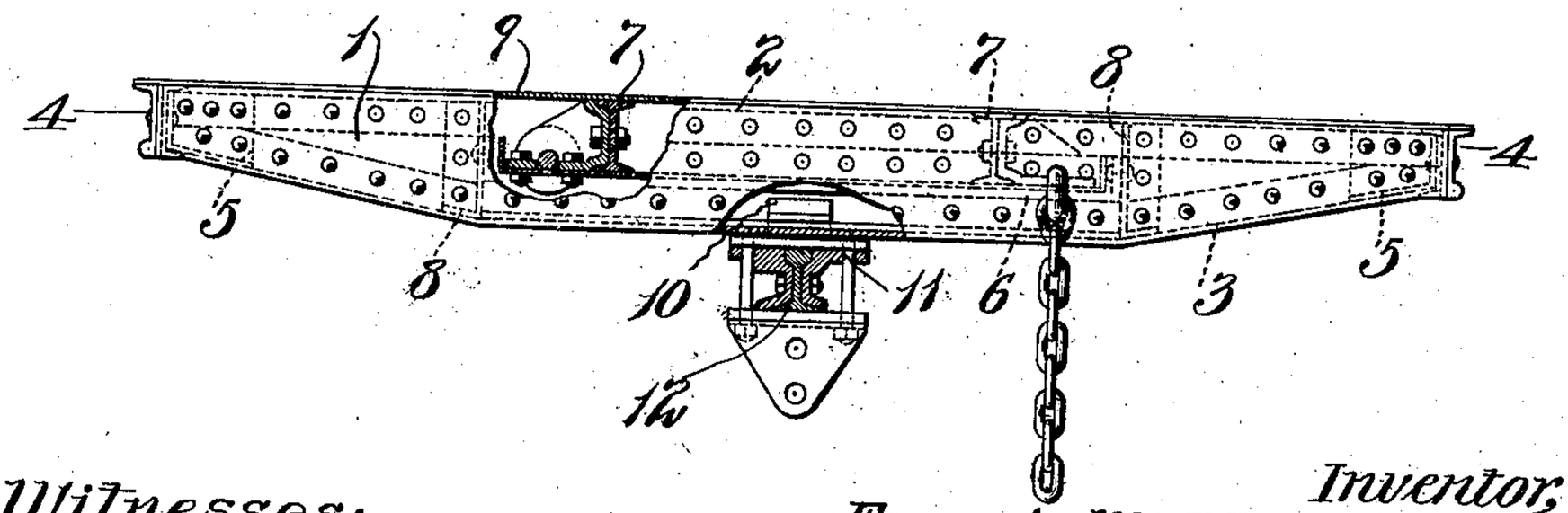


Fig. 3.



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UNITED STATES PATENT OFFICE.

FRANCIS McFARLAN BRINCKERHOFF, OF NEW YORK, N. Y., ASSIGNOR OF ONE-THIRD TO HUGH HAZELTON AND ONE-THIRD TO LEWIS B. STILLWELL, OF NEW YORK, N. Y

CAR CONSTRUCTION.

No. 849,828. Specification of Letters Patent. Patented April 9, 1907.

Application filed December 14, 1906. Serial No. 347,824.

To all whom it may concern:

Be it known that I, FRANCIS McFARLAN BRINCKERHOFF, a citizen of the United States, residing at 3 West Eighth street, New York, N. Y., have invented a certain new and useful Improvement in Car Construction, of which the following is a full, clear, and exact description, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a plan view showing a platform end sill constructed in accordance with my invention. Fig. 2 is a transverse sectional view through said sill, and Fig. 3 is an elevation of the platform end sill.

This invention relates to passenger-cars, and has for its object to provide a novel form of platform end sill which is so constructed that it provides for the support of a radial draw-bar without the usual sector-bar construction. Other desirable features of my construction will be hereinafter pointed out.

Referring to the drawings, which represent the preferred form of my invention, 1 designates a continuous plate, which extends from side sill to side sill and forms the web of the platform end sill. Angles 2 and 3, arranged with their horizontal legs projecting inwardly, are connected to the upper and lower edges of said plate and are connected to the side sills 4 by brackets 5, said plate being bowed slightly, as shown in Fig. 1, and also having portions of its lower edge sheared off adjacent the side sills, so that it will be of less depth at the side sills than at the center sills.

Secured to the inner side of the web-plate 1 is a transversely-extending member 6, which is preferably an angle, and the horizontal leg of said angle supports the ends of the center sills 7.

At the points where the lower angle 3 is deflected upwardly to conform to the inclined lower edge of the plate 1 vertical stiffening-angles 8 are connected to said plate and also to the upper and lower angles 2 and 3 and to the transversely-extending member 6.

Extending transversely from side sill to side sill is a plate 9, that is fastened to the horizontal leg of the upper angle 2.

The horizontal leg of the angle 3 is quite long, so that it extends inwardly for some distance to form a track or support on which the arm 10 on the carrier 11 for the radial draw-bar 12 rests, thereby permitting said carrier to travel from side to side, and thus dispensing with the usual sector-bar construction.

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

1. In a car construction, the combination of a bowed platform end sill having an inwardly-extending flange, a radial draw-bar, and an arm rigidly connected to said bar and adapted to travel on said flange to support said bar; substantially as described.

2. In a car construction, side sills, a bowed web-plate having angles connected to the upper and lower edges thereof, means for connecting said angles and plate to the side sills, center sills, and a transversely-extending member connected to said web-plate and supporting the ends of the center sills; substantially as described.

3. In a car construction, side sills, a bowed web-plate having angles connected to the upper and lower edges thereof, means for connecting said angles and plate to the side sills, center sills and a transversely-extending member connected to said web-plate and supporting the ends of the center sills, vertical stiffening devices connected to the web-plate and to said transversely-extending member, and a plate extending from side sill to side sill and connected to the upper angle on said web-plate; substantially as described.

In testimony whereof I hereunto affix my signature, in the presence of two witnesses, this 3d day of December, 1906.

FRANCIS McFARLAN BRINCKERHOFF.

Witnesses:
W. EVERITT RUNDLE,
THOMAS GREGORY.