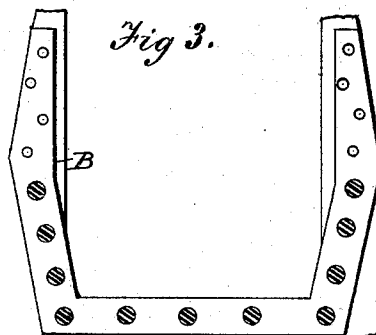
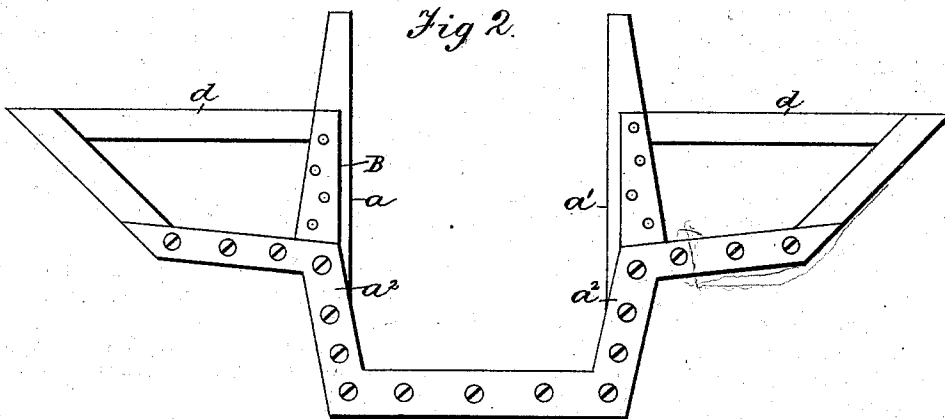
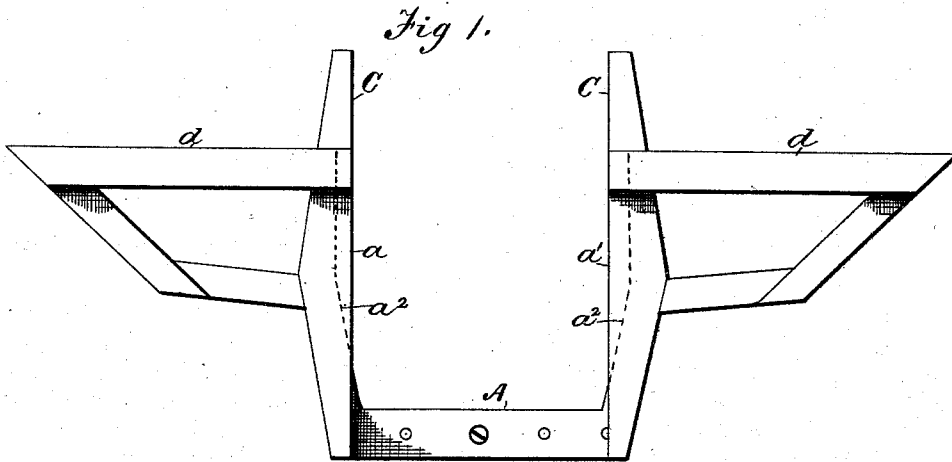


H. RICHTER.
CARRIAGE.

No. 173,814.

Patented Feb. 22, 1876



Witnesses;
Harry B. Clark.
James J. Finley.

Inventor.
Henri Richter.
by R. W. Beadle & Co.
Atty's.

UNITED STATES PATENT OFFICE

HENRI RICHTER, OF DUBUQUE, IOWA, ASSIGNOR OF ONE-HALF HIS RIGHT
TO GRAHAM AND CADY, OF SAME PLACE.

IMPROVEMENT IN CARRIAGES.

Specification forming part of Letters Patent No. **173,814**, dated February 22, 1876; application filed
September 20, 1875.

To all whom it may concern :

Be it known that I, HENRI RICHTER, of Dubuque, in the county of Dubuque and State of Iowa, have invented a new and useful Improvement in Carriages; and I do hereby declare that the following is a full and exact description of the same, reference being had to the accompanying drawings and to the letters of reference marked thereon :

The object of this invention is to so strengthen and support the sill of a long carriage as to prevent it from sagging, and thus interfering with the proper operation of the door, and it consists, mainly, in the combination of a peculiarly-constructed metal strengthening-piece with the sill and door-posts, as will be fully described hereinafter.

In the drawings, Figure 1 represents a side elevation taken from the outside; Fig. 2, a side elevation taken from the inside; Fig. 3, a face view of the iron B.

To enable others skilled in the art to make and use my invention, I will now proceed to describe the same :

A represents the beam forming the sill, and *a a'* suitable framing-pieces secured thereto by means of the bent iron *a²*, as shown. B represents the metal strengthening-piece, a detached view of which is shown in Fig. 3, which is secured to the sill A, side pieces *a a'*, and also

to the inner sides of the door-posts C C, as shown. *d d* also represent framing-pieces which, in connection with the others, form a portion of the sides of the carriage. By means of this strengthening-piece the door-posts and sill, and also the framing-pieces *a a'* are united in a single rigid structure, which will not sag under strain. In consequence of this construction, also, the door-post which carries the door always preserves the same relative position to the sill, and, consequently, there is no difficulty in shutting the door. It will be observed that the metal piece B does not cover the entire inner face of the door-posts, and consequently a proper amount of wood-surface is left exposed for the upholsterer.

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

A carriage-frame provided with the metal strengthening-piece B, substantially as described.

This specification signed and witnessed this 15th day of June, 1875.

HENRI RICHTER.

Witnesses :

AUSTIN ADAMS,
C. C. SEWARD.