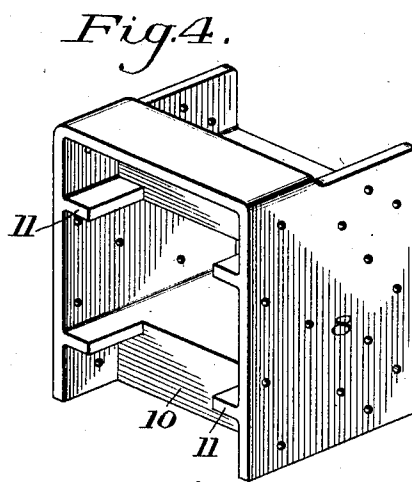
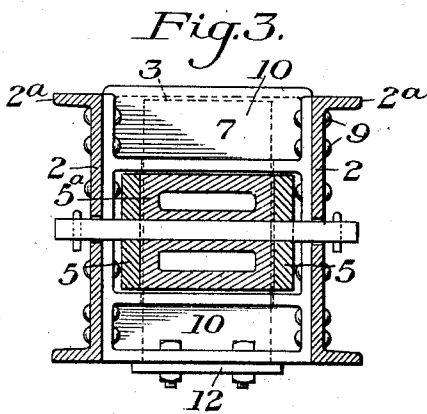
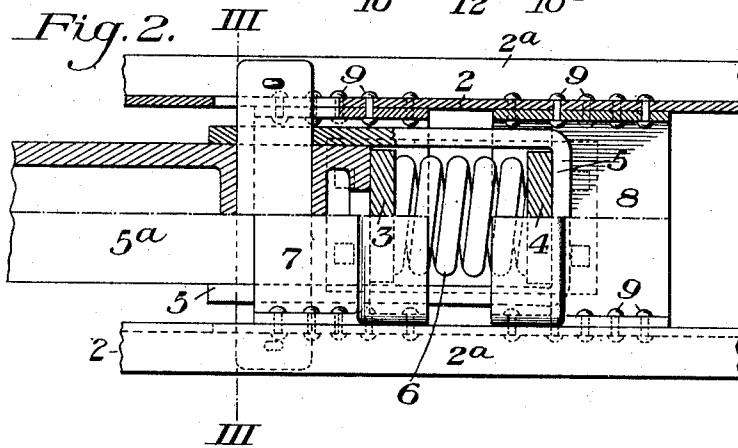
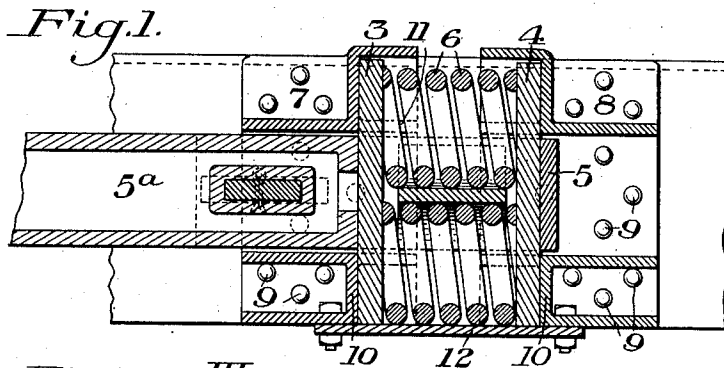


1,044,345.

Patented Nov. 12, 1912.



WITNESSES

R. A. Balderson
Walter Farnier

INVENTOR

J. J. Byers,
by Baker, Byers & Carmichael,
his Attys.

UNITED STATES PATENT OFFICE.

JACOB J. BYERS, OF CHICAGO, ILLINOIS, ASSIGNOR TO THE NATIONAL MALLEABLE CASTINGS COMPANY, OF CLEVELAND, OHIO, A CORPORATION OF OHIO.

DRAFT-RIGGING.

1,044,345.

Specification of Letters Patent.

Patented Nov. 12, 1912.

Application filed May 23, 1910. Serial No. 562,794.

To all whom it may concern:

Be it known that I, JACOB J. BYERS, a citizen of the United States and of Chicago, Cook county, State of Illinois, have invented a new and useful Improvement in Draft-Riggings, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a longitudinal section of the draft rigging embodying my invention; Fig. 2 is a plan view partly in horizontal section of the same; Fig. 3 is a section on the line III—III of Fig. 2; and Fig. 4 is a perspective view of one of the castings.

My invention has relation to draft riggings, and more particularly to draft riggings of the type described and claimed in my Patent No. 673,419, dated May 7, 1901, in which the yoke instead of extending around the draft springs and followers in a vertical plane, embraces the springs and followers laterally, and the springs and followers can be readily removed from the bottom of the cage or pocket in which they are seated.

The present invention is designed to provide means of simple and effective character for securing the draft rigging to the draft sills of the car, and also to provide a pocket for the draft springs and followers which can be readily constructed and from which the springs and followers can be readily removed.

In the drawings, the numeral 2 designates the draft sills, which are preferably in the form of channels spaced from each other with their flanges 2^a turned outwardly.

3 designates the front follower and 4 the rear follower.

5 is the yoke, which is secured in any usual or suitable manner to the draw-bar 5^a, and which embraces said followers laterally; and 6 are the draft springs arranged one above the other between the followers.

In accordance with my invention, I secure between the draft sills 2, two members, preferably castings 7 and 8, these two members or castings being preferably duplicates of each other and spaced longitudinally from each other, to provide for the seating of the

followers and springs between their inner ends. These castings are rigidly secured to the draft sills by means of rivets 9, through their side members. Each casting is of general hollow box form, with the vertical walls or bearing surfaces 10 above and below the yoke for one of the followers, the yoke extending through and between such upper and lower bearing surfaces. The side members of each casting are also preferably provided with the inward projections or ribs 11, between which the yoke is guided and which also form guides for the followers. The two members 7 and 8 may be cast from a similar pattern and can be readily secured in place between the draft sills. They not only form a secure means of attaching the draft rigging to the car sills and a proper bearing for the followers, but they also provide a pocket for the springs. The space between the two castings is open at the bottom to permit the springs and followers to be readily removed downwardly, this open portion being normally closed by the detachable plate 12.

It will be obvious that the exact form and construction of the parts 7 and 8 may be varied without departing from my invention, and that other changes may be made in the details of construction and arrangement of the parts, within the scope of the appended claims.

I claim:

1. In a draft rigging, the combination with draft sills, of two separate pocket-forming members separately secured between and connecting the sills and spaced from each other longitudinally, said sills connecting the pocket-forming members to each other; each of said members having upper and lower portions extending transversely across the ends of the pocket and forming follower abutments, together with followers arranged to seat against said abutments, substantially as described.

2. In a draft rigging, the combination with draft sills, of two separate pocket-forming members having straight outer sides separately secured to the inner faces of the sills and connecting the sills, and spaced from each other longitudinally, said

sills connecting the pocket-forming members to each other, each of said members having upper and lower portions extending transversely across the ends of the pocket
5 and forming follower abutments, together with followers arranged to seat against said abutments, each of said members having side portions formed with inwardly extend-

ing guides for the followers, substantially as described. 10

In testimony whereof, I have hereunto set my hand.

JACOB J. BYERS.

Witnesses:

TOM H. ROBINSON,
ALBERT O. BUCKINS, Jr.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."