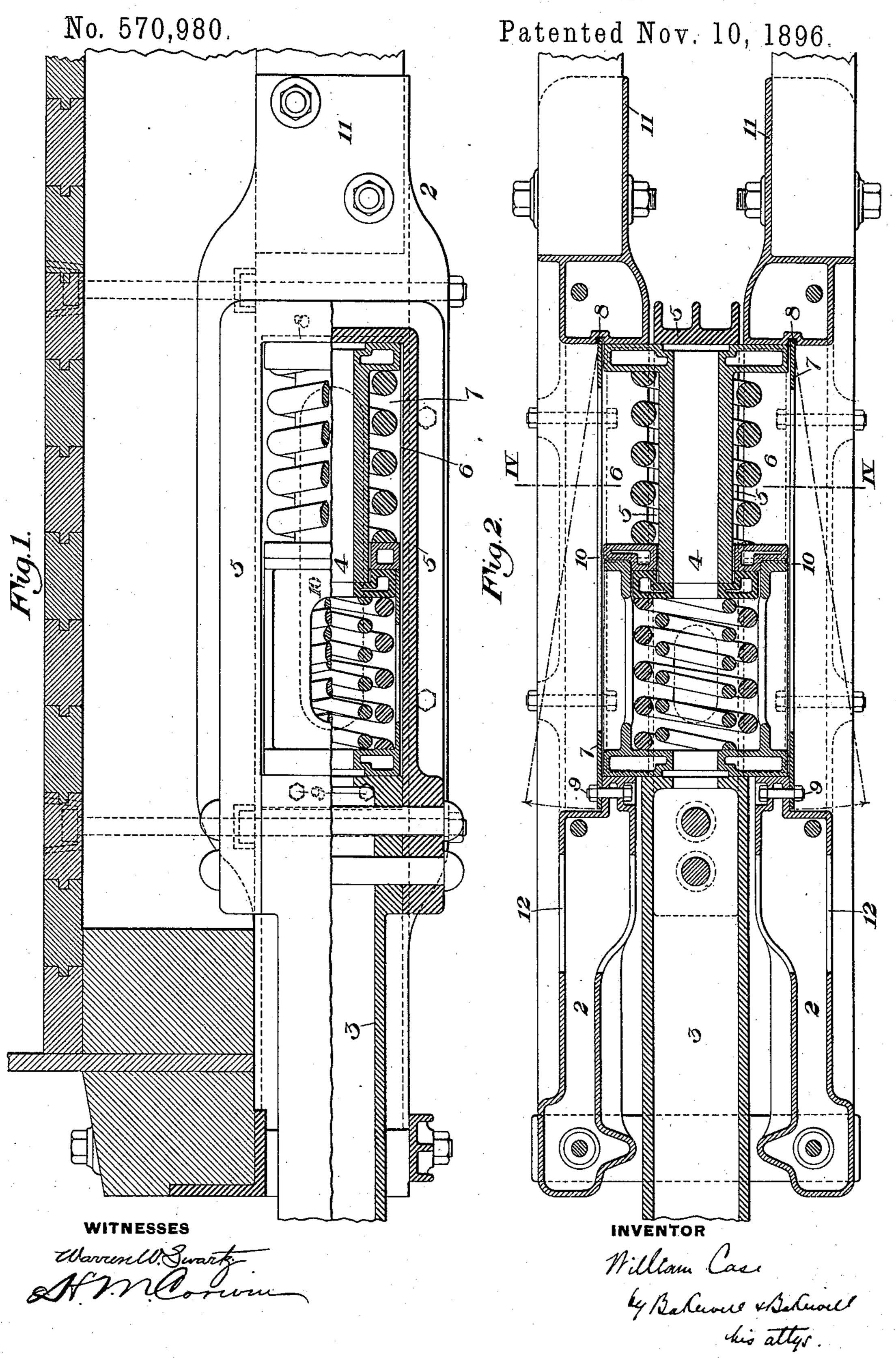
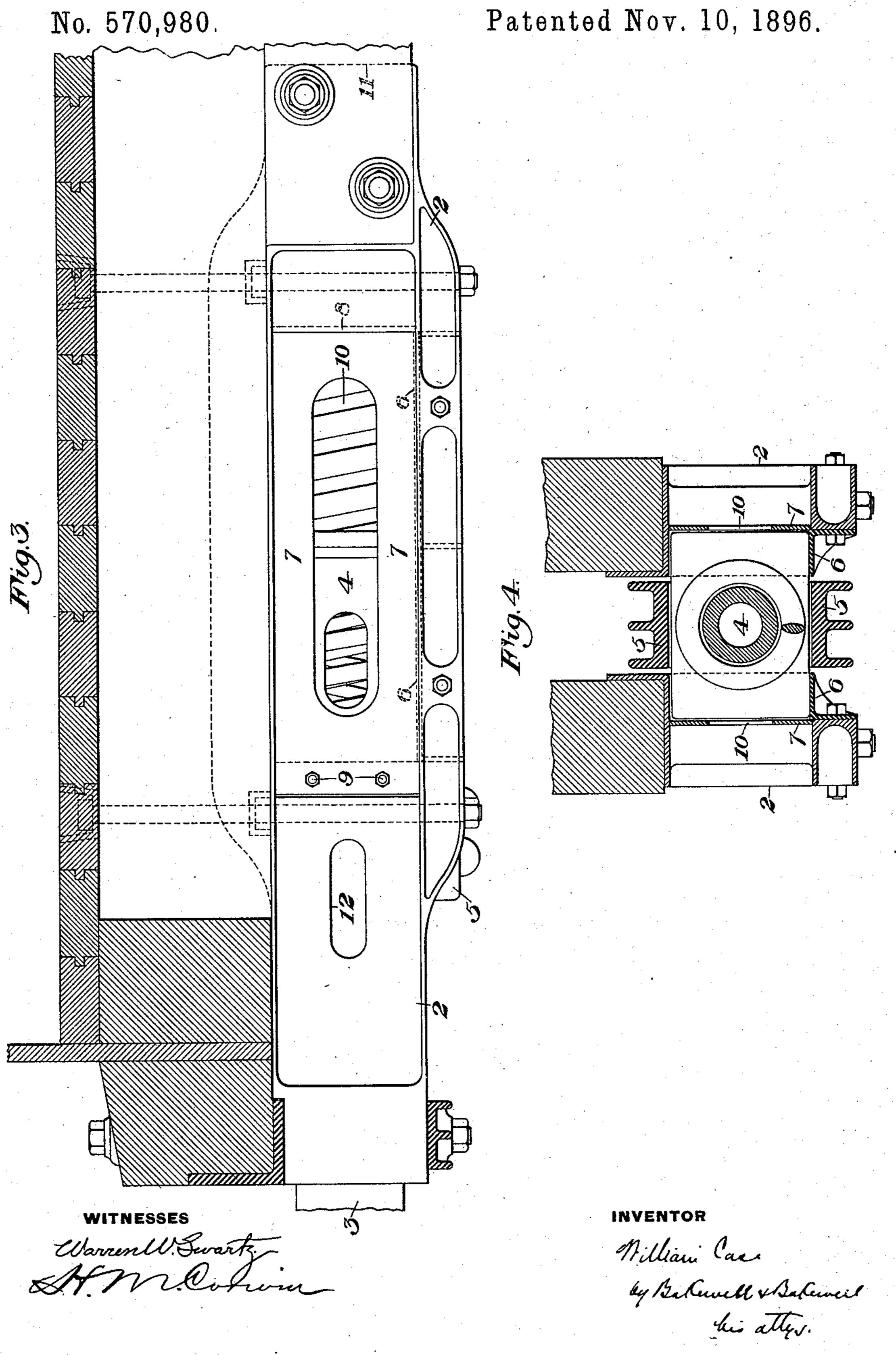
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DRAFT IRON FOR RAILWAY CARS.



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United States Patent Office.

WILLIAM CASE, OF CHICAGO, ILLINOIS, ASSIGNOR TO THE NATIONAL MALLEABLE CASTINGS COMPANY, OF CLEVELAND, OHIO.

DRAFT-IRON FOR RAILWAY-CARS.

SPECIFICATION forming part of Letters Patent No. 570,980, dated November 10, 1896.

Application filed April 23, 1896. Serial No. 588,726. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM CASE, of Chicago, in the county of Cook and State of Illinois, have invented a new and useful Improvement in Draft-Irons for Railway-Cars, of which the following is a full, clear, and exact description.

Figure 1 is a side elevation, partly in section. Fig. 2 is a horizontal section. Fig. 3 is a side elevation showing the draft-iron and cap-plate in position, and Fig. 4 is a cross-

section on the line IV IV of Fig. 2.

Heretofore when it has been desired to remove the draft-rigging springs and appli-15 ances from railway-cars considerable trouble has been experienced because of the necessity which has existed for first removing the draw-bar from between the draft-irons and then taking out the draft-rigging appli-20 ances vertically. Such operation, which is slow and laborious, is rendered unnecessary in the use of the draft-irons constructed in accordance with my invention, since they make it possible to remove the draft-rigging 25 springs laterally from between the draft-irons without removing the draw-bar itself or detaching the strap therefrom. The advantages of such improvement will be appreciated by those familiar with railway practice, 30 for draft-springs frequently break and the matter of their easy removal and replacement is of considerable importance.

My improved draft-rigging comprises draftirons between which the springs and follow-35 ers are set, one (or each) of the draft-irons having a lateral window, through which such springs, &c., can be removed, and a cover by which they are normally held therein.

In the drawings, 2 2 represent the draftirons, which are applied to the draft-timbers of a railway-car and receive between them the draw-bar 3, draft-springs and followers 4, and strap 5, which extends from the tail of the draw-bar and incloses such springs and follower. The movable parts of the draft-rigging, namely, the springs and followers, are supported on guide-strips 6 on the inner faces of the irons, and directly opposite thereto the draft-irons are formed with openings in their sides, through which the springs and followers may be removed laterally. Nor-

mally the window of each iron is covered by a cap-plate 7, which at one end fits in a groove 8 at the end of the window and at the other end is held by bolts 9. The cap-plates close 55 the windows and confine and guide the springs and followers laterally. They are preferably formed with openings 10 to permit the springs, &c., to be seen through the sides.

If it is desired to remove the draft-springs 60 and followers, the workman, by any convenient means, supports the rear portion of the draw-bar and the strap, takes the cap-plate from one of the draft-irons, and removes the springs and followers laterally through the 65 window from between the legs of the strap. If instead of a strap the draw-bar is fitted with a tail-bolt, such bolt must be detached before the springs and followers can be removed.

A novel feature of my invention consists in the manner of attachment of the draft-irons to the ends of the draft-timbers. Each iron has at its rear end a seat for the draft-timber open at the top and at one side and 75 having walls 11, through which the bolts pass. If it is desired to remove the draft-iron, these bolts may be withdrawn and the draft-iron then dropped down from the timber without moving the latter.

My improved device is applicable to draftsprings and followers of many different types, and modifications in the construction of the draft-irons within the scope of the invention as stated in the claims may be made by those 85 skilled in the art.

I claim—

1. The combination with a draft-rigging for cars, comprising a spring and spring-followers, of draft-irons set at the sides of the 90 draft-rigging and fixed to the draft-timbers, said draft-irons being adapted to confine and guide the draft-rigging, and one of the draft-irons having a window in its side from which the spring mechanism of the draft-rigging is 95 removable.

2. A draft-iron having a lateral window through which the spring mechanism of a draft-rigging is removable, and a removable cover for said window.

3. A draft-iron having a lateral window through which the spring mechanism of a

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draft-rigging is removable, and a removable cover having an opening therein.

4. The draft-iron having at its end a seat

for a draft-timber open at the top and at one side and having a wall at the bottom, and a wall at one side, adapted to fit against the draft-timber and to receive the bolts.

In testimony whereof I have hereunto set my hand.

WILLIAM CASE.

Witnesses:

THOMAS W. BAKEWELL, CLAYTON MARK.