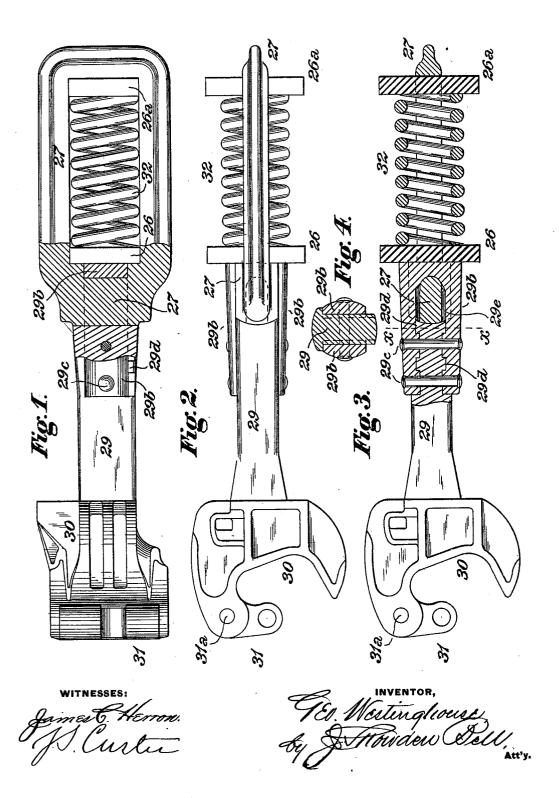
G. WESTINGHOUSE.

DRAFT APPLIANCE FOR RAILWAY CARS.

(Application filed Aug. 1, 1900.)

(No Model.)



UNITED STATES PATENT OFFICE.

GEORGE WESTINGHOUSE, OF PITTSBURG, PENNSYLVANIA.

DRAFT APPLIANCE FOR RAILWAY-CARS.

SPECIFICATION forming part of Letters Patent No. 672,114, dated April 16, 1901.

Application filed August 1, 1900. Serial No. 25,537. (No model.)

To all whom it may concern:

Beitknown that I, GEORGE WESTINGHOUSE, of Pittsburg, in the county of Allegheny and State of Pennsylvania, have invented a cer-5 tain new and useful Improvement in Draft Appliances for Railroad-Cars, of which improvement the following is a specification.

My invention more particularly relates to draft appliances which are employed in con-10 nection with automatic couplers; and its object is to provide simple, substantial, and inexpensive means by which strains of draft and buffing may be transmitted from a coupler to the spring or other resistance device 15 by which they are taken up and which will in operation obviate liability to uncoupling in passing around short curves and relieve strains on the car-body which are encountered in passing curves with appliances of the con-20 structions ordinarily heretofore employed.

The improvement claimed is hereinafter

fully set forth.

In the accompanying drawings, Figure 1 is a side view, partly in vertical longitudinal central section, of a draft appliance, illustrating an application of my invention; Fig. 2, a plan or top view of the same; Fig. 3, a view, partly in plan and partly in horizontal longitudinal central section; and Fig. 4, a trans-30 verse section at the line x x of Fig. 3.

In the practice of my invention I provide a coupler-shank or draw-bar 29, the outer end of which carries a coupler-head 30, to which a knuckle 31 is pivoted by a vertical 35 knuckle-pin 313. The coupler - head, which does not in and of itself constitute part of my present invention, is provided with a suitable locking mechanism and may be of any suitable and preferred form of what is known as 40 the "vertical plane" or "Master Car-Builders'" type of automatic coupler. The couplershank is pivotally connected, as presently to be described, to a draft strap or yoke 27, which is adapted to surround and impart strains re-45 ceived by the coupler-head to a draft and buffing apparatus of any known and preferred construction, which in this instance is shown as a spring 32, interposed between front and back follower-plates 26 26a, fitted in the draft-

The coupler-shank 29 is reduced in thick-

and is provided with lateral tongues 29d, adapted to engage corresponding grooves in the side members of a bifurcated pivot-jaw 29b, to 55 the forward or outer portion of which the coupler-shank is secured by rivets 29°. The forward end portion of the draft-strap 27 passes through the vertical central recess or passage 29° of the pivot-jaw, which recess is 60 open at the front and closed at the rear end of said pivot-jaw. The portion of the draftstrap which passes through the recess 29° is provided with segmental vertical bearingfaces on its front and rear sides, said bear- 65 ing-faces fitting against correspondinglycurved vertical bearing-faces on the rear end of the coupler-shank 29 and on the body of the pivot-jaw adjacent to the rear end thereof, as shown in Fig. 3. The inner or rear end 70 of the pivot-jaw 29b abuts against the front

follower-plate.

In assembling the parts of the appliance the front end portion of the draft-strap 27 is slipped into position in the recess 29° of the 75 pivot-jaw 29°, and the narrowed rear end portion of the coupler-shank 29 is then inserted in the recess 29°, so as to abut against the adjoining bearing-face of the draft-strap and is secured in this position by the rivets 80 Under this construction it will be seen that the front end portion of the draft-strap constitutes a vertical pivot to which the coupler-shank 29 is coupled at its rear end, thus permitting the coupler-head 30 to traverse in 85 a horizontal plane within a properly-limited range of movement when the car is passing around a curve, and thereby obviating or substantially reducing the tendency to uncouple on curves of short radius, which ob- 90 tains where the coupler-shank and draft-strap are rigidly connected, and relieving the incidental strains on the car-frame. When the dental strains on the car-frame. coupler-shank is swung upon its pivot on the draft-strap, the rear end of the pivot-jaw cor- 95 respondingly moves the front follower-plate 26, against which it abuts, causing it to bear more strongly against the draft and buffing spring 32 on one side than on the other, and said spring as a resultant of such unequal lat- 100 eral bearing of the follower-plate acts when the car passes from a curve to a tangent to return the coupler-head to and maintain it ness at and adjacent to its inner or rear end in normal position—that is to say, with the

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longitudinal central plane of the couplershank in line with that of the draft-strap and of the car.

I claim as my invention and desire to se-

5 cure by Letters Patent-

1. The combination of a coupler-head, a coupler-shank fixed thereto, a bifurcated pivot-jaw secured to the rear end of the coupler-shank, and a draft strap or yoke having 10 segmental bearing-faces fitting correspondingly-curved bearing-faces on the couplershank and pivot-jaw.

2. The combination of a coupler-head, a coupler-shank fixed thereto, a bifurcated 15 pivot-jaw secured to the rear end of the counler-shank, a draft strap or yoke having segmental bearing-faces fitting correspondinglycurved bearing-faces on the coupler-shank

and pivot-jaw, a follower-plate bearing against the rear end of the pivot-jaw, and a spring 20 bearing against the follower-plate.

3. The combination of a coupler-head, a coupler-shank fixed thereto and having its rear portion reduced in width and provided with lateral tongues, a bifurcated pivot-jaw 25 having a central recess provided with grooves which receive the tongues of the couplershank, rivets connecting the coupler-shank and pivot-jaw, and a draft strap or yoke having segmental bearing faces fitting corre- 30 sponding bearing-faces on the coupler-shank and pivot-jaw.

GEO. WESTINGHOUSE.

Witnesses:

HUGH A. CROOK, J. SNOWDEN BELL.