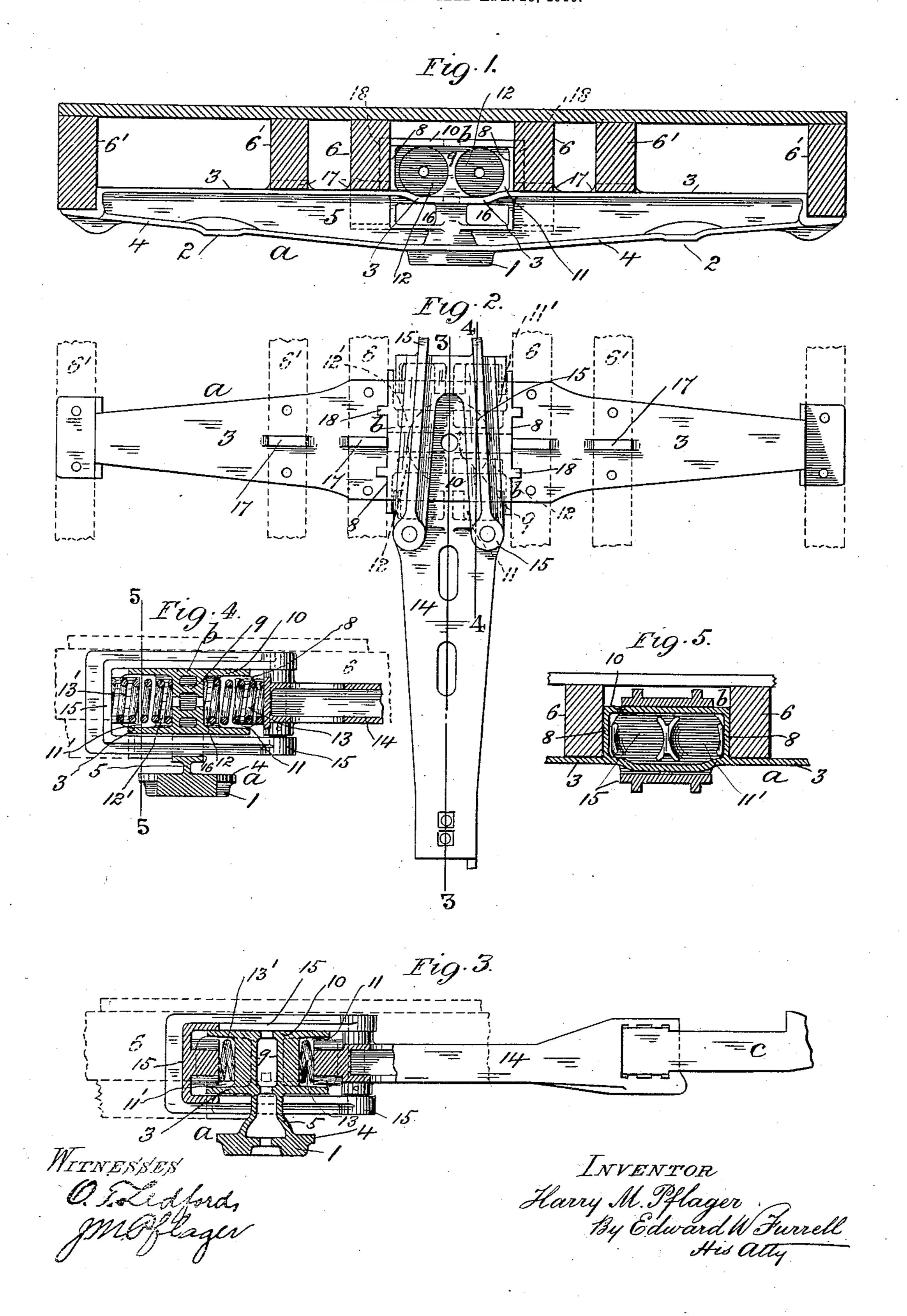
H. M. PFLAGER.

COMBINED CAR BODY BOLSTER AND DRAW BAR SPRING POCKET.

APPLICATION FILED APR. 28, 1906.



## UNITED STATES PATENT OFFICE.

HARRY M. PFLAGER, OF ST. LOUIS, MISSOURI, ASSIGNOR TO TRANSOM DRAFT-GEAR COMPANY, OF ST. LOUIS, MISSOURI, A CORPORATION OF DELAWARE.

COMBINED CAR-BODY BOLSTER AND DRAW-BAR SPRING-POCKET.

No. 824,203.

Specification of Letters Patent.

Patented June 26, 1906.

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To all whom it may concern:

Be it known that I, HARRY M. PFLAGER, a citizen of the United States, residing at St. Louis, in the State of Missouri, have invented 5 a new and useful Combined Car-Body Bolster and Draw-Bar Spring-Pocket, of which

the following is a specification.

My invention relates to a metallic, preferably cast-steel, car-body bolster and comto bined draw-bar spring-pocket specially adapted for a low-body car, and has for its object to enable the draw-bar extension of the draftgear, with its yoke and springs, to be applied to the bolster above the top member thereof 13 and between the middle longitudinal car-sills in a horizontal plane alined to that of the draw-bar and coupler at the standard height thereof from the track instead of to the body of the bolster below its top member, which 20 necessitates an upward inclination or curvature of the draw-bar extension therefrom to its connection with the inner end of the drawbar, as at present the case.

The invention consists in features of nov-25 elty, as hereinafter described and claimed, reference being had to the accompanying drawings, forming part of this specification,

whereon—

Figure 1 is a front side elevation of my im-30 proved car-body bolster and combined drawbar spring-pocket; Fig. 2, a top plan view thereof, showing the draft-gear applied thereto; Fig. 3, a vertical longitudinal section through the bolster, pocket, and draft-gear 35 (seen partly in side elevation) on line 3 3 in Fig. 2; Fig. 4, a similar view thereof (broken away) on line 4 4 in Fig. 2; and Fig. 5, a vertical transverse section through the pocket and draft-gear on line 5 5 in Fig. 4.

Like letters and numerals of reference de-

note like parts in all the figures.

a represents a car-body bolster having the center-plate 1 and side bearings 2 and composed, preferably, of cast-steel integral 45 throughout. The bolster a in the present case is I-shaped in cross-section, having the top flanges or tension member 3, the bottom flanges or compression member 4, and the web 5, the top member 3 bearing against the 50 under side of the middle and outer longitudinal sills 6 6' of the car-body, to which the bolster a is secured by bolts (not shown) in the

may be otherwise shaped in cross-section as desired.

Across the top of the bolster a at its middle portion and integral with the top member 3 are formed two opposite upright walls 8, which are parallel to each other at an equal distance from the longitudinal center line of 60 the car, the distance between the outer faces of the walls 8 being preferably equal to that between the middle longitudinal sills 6,

against which they bear, as shown. The walls 8 are united to each other, pref- 65 erably in the middle, by an upright web or hollow wall 9 and at the top by a horizontal wall 10, which extends for a suitable distance beyond the front and rear faces of the web 9 to preferably the full width of the top mem- 70 ber 3 of the bolster a thereat, the walls 8 and 10 thereby forming with the top member 3 a draw-bar spring-pocket b, which is divided by the middle web 9 into two parts 11 11', having their openings respectively at the 75 front and rear sides of the bolster a. The upright web 9 is preferably in the plane of the web 5 of the bolster a, the wall 10, with the webs 9 and 5 and center-plate 1, being perforated centrally and otherwise adapted 80 thereat for the passage of the king-bolt (not

shown) therethrough. In the front face of the web 9 within the compartment 11 of the pocket b are formed two horizontally-arranged and parallel cylin- 85 drical recesses or housings 12, one on each side of and equidistant from the longitudinal center line of the car and adapted to receive the "buffing-springs" 13 of the draft-gear, and in the rear face of the web 9 within the 90 compartment 11' of the pocket b are formed similar recesses or housings 12', which are alined to the housings 12 and adapted to receive the "draft-springs" 13 of the draftgear, the springs 13 13', with the draw-bar 95 extension 14 and yoke 15 of the draft-gear. which is slidable through openings 16, formed therefor transversely through the web 5 of the bolster a, being centrally in the same horizontal plane with the draw-bar and coupler too c at the standard height thereof from the track and similar in principle and operation to the corresponding parts of the self-centering draft-gear described in the Letters Patent of the United States granted to me January 105. usual well-known manner, or the bolster a 23, 1906, No. 810,805, for improvement in

draft-gear for railroad-cars, or the pocket b of the bolster a may be adapted to the springs and combined parts of any other suitable form of draft-gear. By the above ar-5 rangement the draw-bar extension, with its yoke and springs, being in the same horizontal plane with the draw-bar and coupler, the strain of the draft-gear is applied in a direct line to the bolster at a point above its top 10 member between the middle longitudinal car-sills, as required in the case of a low-body car for maintaining the standard height of the coupler, whereas when applied to the bolster below its top member it is necessary 15 to incline or curve the draw-bar extension upward therefrom to its connection with the coupler draw-bar, which not only weakens the draw-bar extension, but owing to the difference of level between the springs and coup-20 ler the draft-gear is unduly strained.

For obviating the tendency of the bolster a to cant at the level of its top member 3 under the strain of the draft-gear when applied, as above described, the top member 3 is formed 25 on its upper side with longitudinal ribs 17, which are adapted to engage in corresponding slots formed transversely in the under side of the sills 6 and 6', respectively, as shown, whereby any tilting strain on the bol-30 ster a thereat is transmitted to the sills 6 6', or in lieu of a rib 17 to each sill a single extended rib may be used on each side of the pocket b for engaging in the slots of the sills. Similar upright ribs 18 are preferably formed 35 on the outer side faces of the pocket b for engaging in corresponding slots in the inside faces of the middle longitudinal sills 6, whereby the pocket b is held more firmly and play

40 What I claim as my invention, and desire

to secure by Letters Patent, is—

thereof prevented.

1. A car-body bolster of the class described, having a pocket projecting upward therefrom at its middle portion and integral there-45 with, the said pocket being adapted internally to form a housing for suitable draftgear, substantially as described and for the purpose set forth. 2. The combination with the longitudinal

sills of a car-underframe, of a body-bolster 50 composed of suitable metal and fixed to the said sills, a pocket projecting upward from the bolster at its middle portion and adapted internally to form a housing for suitable draft-gear, the said housing being in central 55 horizontal alinement with the draw-bar and coupler of the said gear, substantially as described and for the purpose set forth.

3. The combination with the longitudinal sills of a car-underframe, of a body-bolster 60 composed of suitable metal integral throughout and fixed to the said sills, a pocket projecting upward from and integral with the top member of the bolster at its middle portion, and adapted internally to form a hous- 65 ing for suitable draft-gear, the said housing being in central horizontal alinement with the draw-bar and coupler of the said gear,

substantially as described.

4. The combination with the longitudinal 70 sills of a car-underframe, of a body-bolster composed of suitable metal and fixed to the said sills, a pocket projecting upward from the bolster at its middle portion and adapted internally to form a housing for suitable 75 draft-gear, the said housing being in central horizontal alinement with the draw-bar and coupler of the said gear, and ribs projecting from the top of the bolster and adapted to engage in the said sills, substantially as de-80 scribed and for the purpose set forth.

5. The combination with the longitudinal sills of a car-underframe, of a body-bolster composed of suitable metal and fixed to the said sills, a pocket projecting upward from 85 the bolster at its middle portion and adapted to bear at its sides against the middle longitudinal sills, and ribs projecting from the said sides for engaging the said middle sills, the said pocket being adapted internally to 90 form a housing for the springs of suitable draft-gear, substantially as described and for the purpose set forth.

## HARRY M. PFLAGER.

Witnesses:

E. C. Touhey, EDWARD W. FURRELL.