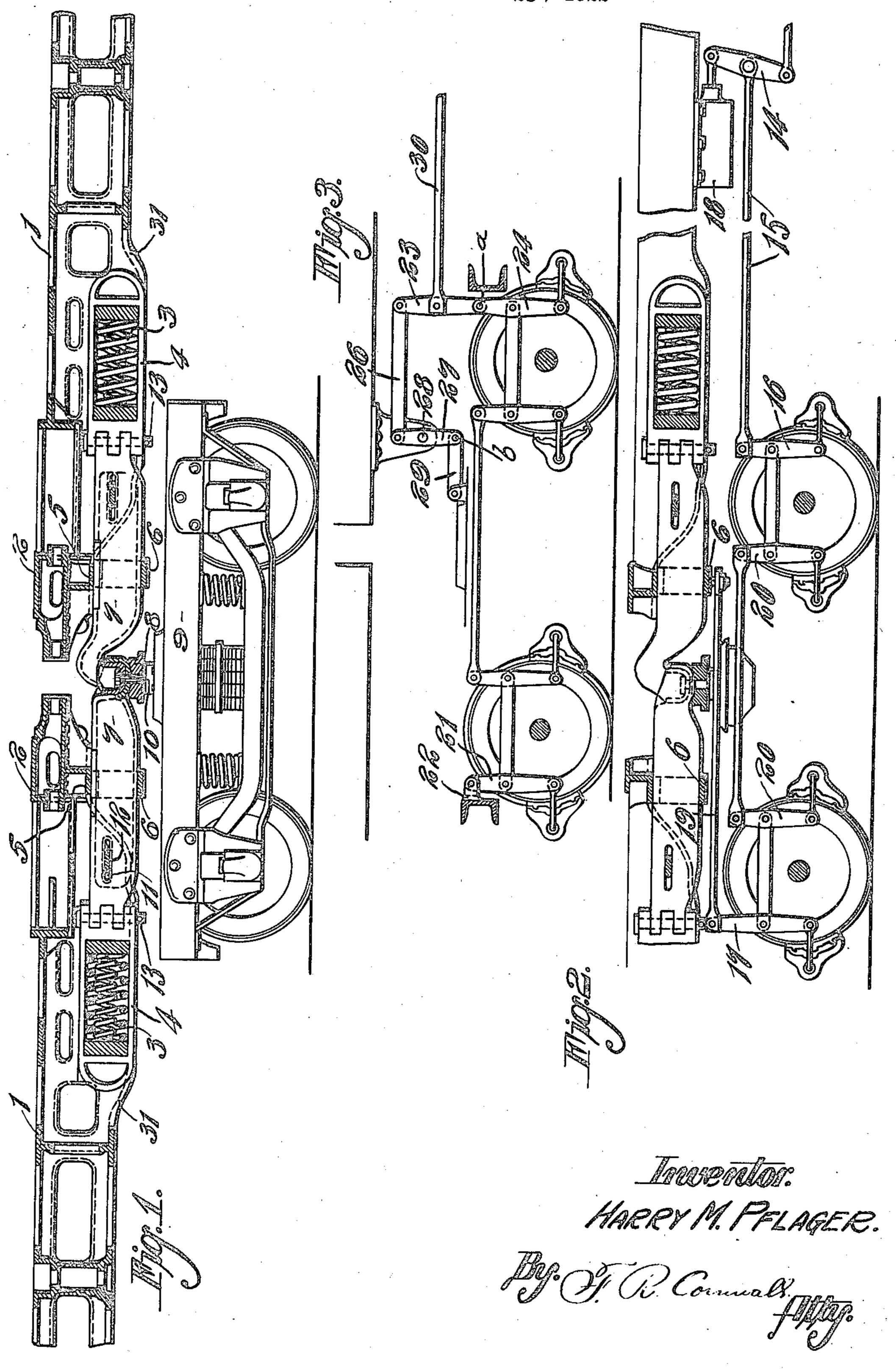
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ARTICHLATED CAR

Filed Dec. 28, 1922



UNITED STATES PATENT OFFICE.

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ARTICULATED CAR.

Application filed December 28, 1922. Serial No. 609,521.

To all whom it may concern:

Be it known that I, HARRY M. PFLAGER, a citizen of the United States, residing at the with contours similar to the ordinary car city of St. Louis and State of Missouri, have body center plate contours. Each draw bar 5 invented a certain new and useful Improve- is of substantial depth and of a size and ment in Articulated Cars, of which the fol- shape to form a rigid member adapted to lowing is a full, clear, and exact description, support a car body through surface 5 and 60 such as will enable others skilled in the art the underframe casting 1. The draw bars to which it appertains to make and use the 7 differ from each other in the contours of 10 same, reference being had to the accompany- their forward ends, that of the left hand tion.

stock, and consists in improvements in ar- ingly shaped end of the right hand draw 15 ticulated car construction. The object of bar. The forward ends of draw bars 7 my invention is to mount the adjacent ends therefore serve as center plate elements for of two cars upon a single truck so that two their respective cars and also as couplers for 70 cars may have such independent movement the cars. They are retained in position on as is necessary or desirable to absorb the the truck center plate 8 by a king-bolt 10. 20 draft and buffing stresses incident to rail- Each of the underframe castings 1 is proroad operation.

plates the relative movement of the cars and length in the draw bar, and a yoke key 12 the common truck upon which they are passes through the three slots and serves to 25 mounted, an additional object of my inven- limit the travel of the draw bar relatively tion is to provide for the operation of brake to the car. Assembly of draw bar 7 and rigging for the truck wheels from the car yokes 4 is maintained by suitable pins 13. in the usual manner.

30 appear from the specification and an inspec- ited distance as they would be if mounted tion of the drawings accompanying the upon individual trucks in the usual manner. same, in which,—

Figure 1 is a vertical longitudinal sec-35 derframe members of two cars mounted draw bars for duplicate trucks under the upon a single truck.

Figure 2 is a similar section in which the

brake rigging is shown.

40 brake rigging adapted for the same truck structions such as shown in Figures 2 and 3 and car body assembly.

in my drawings consists of one piece steel necting rod 15, live lever 16, dead lever 17 and castings 1 of a familiar type having plat- the usual truck levers, connecting rods and 45 form and buffer portions 2 and draft arm brake beams between the live and dead portions 31 which mount individual draft gears 3 provided with draft yokes 4.

Each casting has a downwardly facing surface 5 adjacent to its forward end and In Figure 2 I show the truck dead lever mounts a carry iron 6 vertically alined with 17 anchored to the same car body on which is the surface 4 but spaced below the same mounted cylinder 18 by a connecting rod 19 far enough to receive a draw bar 7. Draw having its end secured to the under surface 105 bars 7 are of novel form, having their rear of carry iron 6 of the right hand car. It

ends tenoned in the forward ends of yokes 4 and having their forward ends provided 55 ing drawings, forming part of this applica- draw bar having its end shaped to fit into the center plate 8 of the truck 9 and to re- 65 This invention relates to railroad rolling ceive the lower portion of the correspond-

vided with elongated horizontal slots 11 Since my invention necessarily contem- alined with a corresponding slot of shorter 75

Obviously, the two car bodies are just as Detail objects of my invention will also free to move to and from each other a lim-At the same time all of the advantages of the 85 articulated construction are maintained by tion through the platform and adjacent un- the substitution of a single truck under the car body bolsters.

The above assembly of the car bodies and 90 the truck creates a problem in the applica-Figure 3 is another arrangement of the tion of the brakes, which occasions the conin which the brake rigging is shown as contain-The portions of the car body illustrated ing the usual cylinder lever 14, live lever con- 95 levers Cylinder lever 14 is operated by the piston of an air cylinder 18 mounted on the 100 right hand car body in the usual manner.

will be understood that the portions of the and a center plate on the outer end of said 55 brake rigging of the left hand car which draw bar. operated the truck replaced by truck 9 will 3. In a railway car, a draw bar slidably shown is used.

With this anchoring of the dead lever, of the car. of the right hand car will not produce any frame at a point spaced from the car end, 10 operative movement of the brake rigging, extending beyond said car body with its a parallel ruler, and their lower ends, re- body. 15 set the brakes.

20 trated in Figure 3 may be used, in which said truck center plate. the car body at 28 and having its opposite said draw bar. end secured to the truck bolster by a con- 7. In an articulated car, car bodies, conditional elements 23, 26, 27 and 29 secure bers supported by said draw bars. tion of connecting rod 30.

Warious other arrangements of the brake truck. rigging adapted to compensate for the rela-9. In a railway car, a body, a member on 05 brake installations, and modifications of the nally of said body. 45 draft arm construction will also be sug- 10. In a railway car, a body, a slidable my invention, and I contemplate all such through said draw bar. variations as fall within the scope of my 11. In a railway car, a slidable draw-bar invention as expressed in the appended claims.

I claim:

1. In a railway car, a slidable draw bar and a center plate on said draw bar.

2. In a railway car, a slidable draw bar

be idle when the articulated construction mounted thereon and adapted to be supported upon a truck and to support one end

movement of the truck and the brake rig- 4. In combination, a car truck, a car ging mounted on the truck longitudinally body, a draw bar secured to the car underas truck levers 16, 17 and 20 will swing outer end supported on said truck, said 65 about their upper ends like the elements of draw bar supporting the end of said car

maining the same distance apart, will not 5. In combination with a car truck provided with an upwardly facing center plate, If for any reason, it is necessary or de- a car body, a slidable draw bar mounted on 70 sirable to anchor the truck dead lever to the said car body and extending beyond the truck frame instead of to the car body, as same and provided with a downwardly facshown in Figure 2, the construction illus- ing center plate adapted to fit and rest upon

the truck dead lever 21 is anchored to the 6. In a railway car, an underframe mem-75 truck frame at 22 and the compensating ber having a transverse slot and a downelements consisting of a cylinder connect- wardly facing surface in front of said slot, ing rod floating lever 23 having one end a draw bar having a slot alined with said 25 secured to the truck live lever 24 and hav- member slot, and a bearing surface engaging its opposite end connected by a rod 26 ing said member surface, a key through said 30 to a compensating lever 27 fulcrumed on slots, and a center plate on the outer end of

20 nection 29. The cylinder lever rod 30 is necting draw bars slidably mounted on their connected to lever 23 intermediate the ends respective bodies, interengaging center plates 35 of the latter. In this construction, the ad- on said draw bars, and underframe mem-

the same result as the anchorage shown in 8. In an articulated car, a truck, two car 25 Figure 2. For instance, movement of the bodies the ends of which respectively protruck to the left will shift points a and b ject over said truck, draw bars slidably so accordingly and turn levers 23 and 27 about mounted on said bodies having their outer their fulcrums without affecting the posi- ends supported on said truck and supporting one end each of said bodies over said

tive movement of the truck and body will said body adapted to support the body from suggest themselves to those familiar with a truck and having movement longitudi-

gested in the commercial development of draw bar and a truck supporting said body 100

provided with integrally formed coupling and center plate members.

In testimony whereof I hereunto affix my 105 signature this 5th day of Dec., 1922.

H. M. PFLAGER.