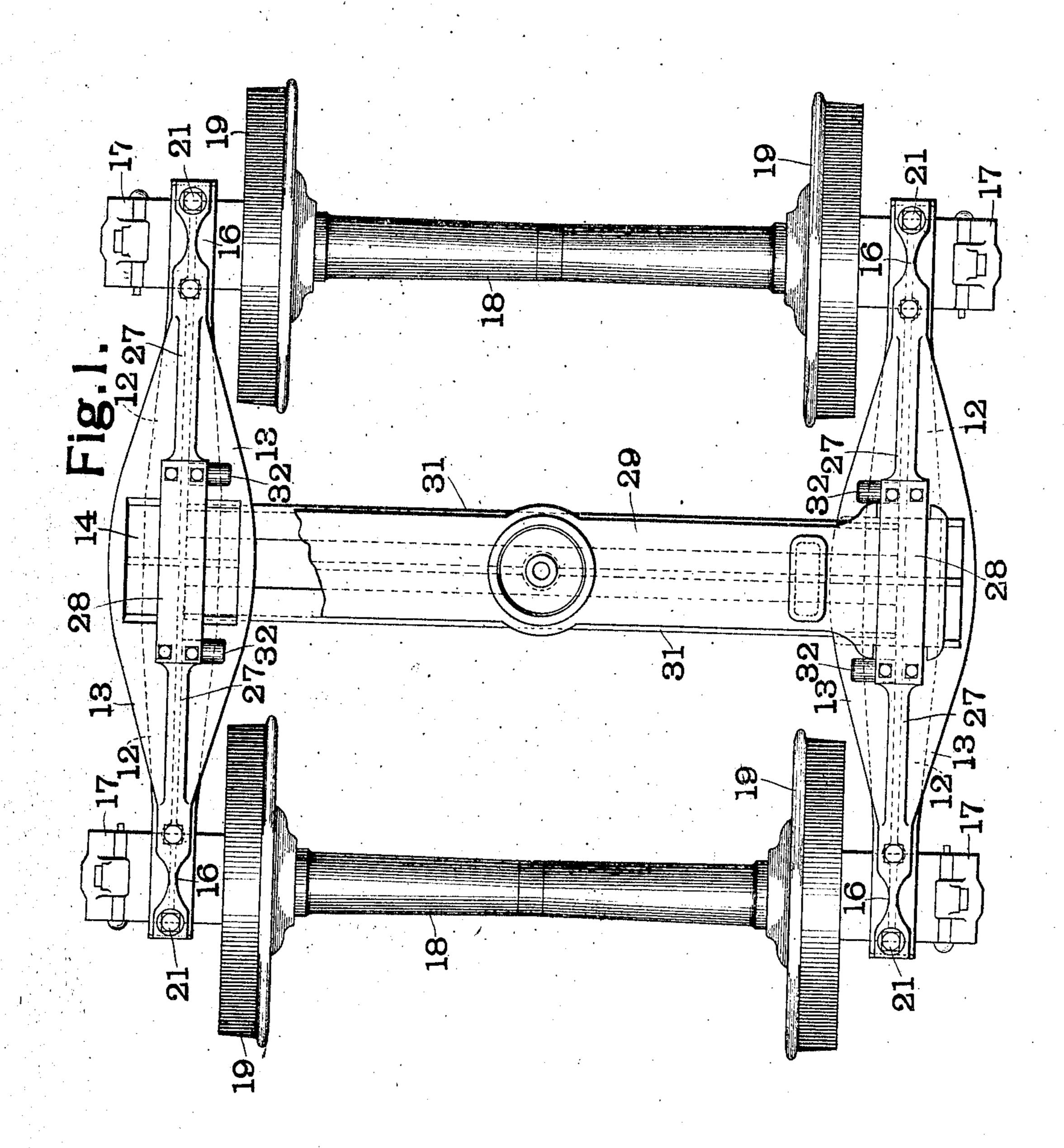
PATENTED NOV. 19, 1907.

## H. W. WOLFF. CAR TRUCK. APPLICATION FILED JUNE 26, 1907.

2 SHEETS-SHEET 1.



WITNESSES:

L.L. Mead. W. A. Alexander. H. W. Wolff.

BY

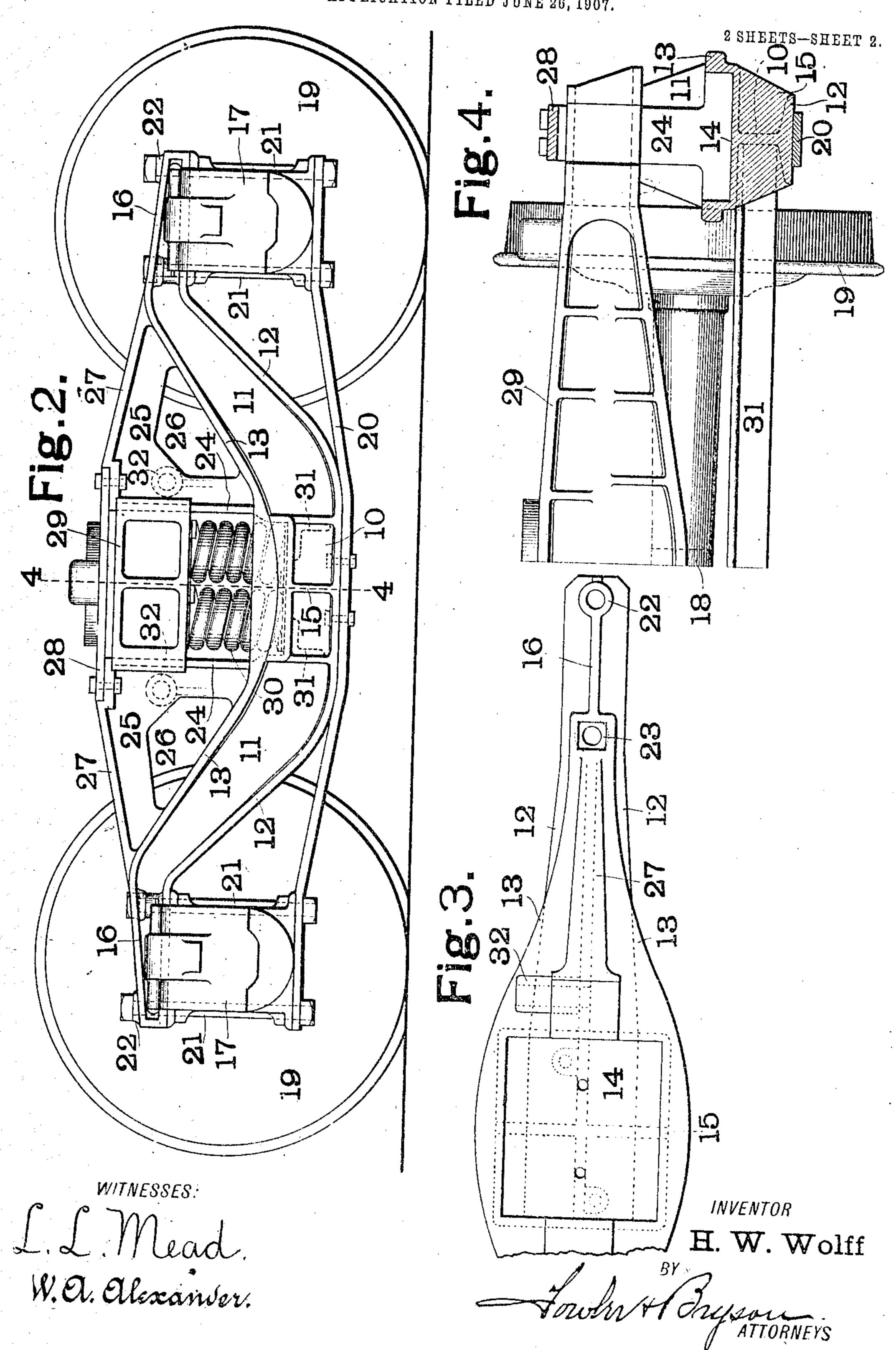
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ATTORNEYS

H. W. WOLFF.

CAR TRUCK.

APPLICATION FILED JUNE 26, 1907.



## UNITED STATES PATENT OFFICE.

HERBERT W. WOLFF, OF ST. LOUIS, MISSOURI, ASSIGNOR TO WOLFF TRUCK FRAME COMPANY, OF AUGUSTA, MAINE, A CORPORATION OF MAINE.

## CAR-TRUCK.

No. 871,466.

Specification of Letters Patent.

Patented Nov. 19, 1907.

Application filed June 26, 1907. Serial No. 380,880.

To all whom it may concern:

Beit known that I, HERBERT W. WOLFF, a 5 a certain new and useful Car-Truck, of which the following is such a full, clear, and exact description as will enable any one skilled in the art to which it appertains to make and use the same, reference being had to the ac-10 companying drawings, forming part of this specification.

My invention relates to trucks for railway truck in which the side frame consists of a | the depressed bolt head seat 23, as shown in 15 single piece of cast metal, preferably cast steel.

The object of my invention is to so distribute the metal in the side frame that the greatest possible strength will be secured 20 with the least amount of metal.

In the accompanying drawings, which illustrate one form of car truck made in accordance with my invention, together with a 25 plan view, Fig. 2 is a side elevation, Fig. 3 is a + 25 are provided with T-flanges 27. These Tthe springs being omitted.

30 Like marks of reference refer to similar that these T-flanges 27 form a substantially

tie beams 11 is provided with a bottom truck columns 24. flanges, as well as the central web of the tie by means of the compression members 28 upper end of the tie beam. The top flange which are contained in the spring seats 14. ber 10 and is both expanded laterally and means of angle irons 31. thickened at this point. A depressed spring 32 are brake hangers, which are formed seat 14 is formed in the bottom member integral with the webs 25. 45 10 extending through the expanded and The construction of the side frame of my

Formed integral with the upper ends of the tie beams 11 are oil box extensions 16. wardly from their point of juncture with the tie beams 11. The oil box extensions 16 rest

pocket 14.

on oil boxes 17 in which are journaled the 55 axles 18 carrying the wheels 19. The oil citizen of the United States, residing at St. | boxes 17 are secured in position between the Louis, in the State of Missouri, have invented | oil box extensions 16 and the inverted arch bar 20 by means of bolts 21. In order that these bolts 21 may be of the same length, I 60 provide the inclined tops of the oil box extensions 16 with a raised seat 22 and a depressed seat 23. The upper T-flange 13 of the tie beams 11 extends to the upper edge" of the oil box extension 16, as best shown in 65 Fig. 2, and may either extend entirely along. cars, and more particularly to that class of the oil box extension or may terminate at

Fig. 3.

24 are the truck columns, which are formed 70. integral with and extend upwardly over the ends of the bottom member 10 of the side frame. These truck columns 24 are connected by means of a web 25 with the extremities of the tie beam 11. Openings 26 75 are formed through these webs to allow of the inspection of the brake hangers and slight modification thereof, Figure 1 is a top | brake beams. The upper edge of the webs top plan view of a portion of one of the side; flanges, together with the adjacent portion of 80 frames, showing a slight modification and the web, form strut members between the Fig. 4 is a section on the line 4--4 of Fig. 2 | outer ends of the tie beams and the upper ends of the truck columns. It will be noted parts in the several views of the drawings. straight line with the upper edges of the oil 85 10 is the bottom member of the side box extensions is and thus the strain transframe. Inclined upwardly from each end mitted by these oil box extensions is delivof the bottom member 10 and formed inte-pered directly to a removable compression; 35 gral therewith is a tie beam 11. Each of the | member 28 set into the upper ends of the

T-flange 12 and a top T-liange 13. These | 29 is the bolster, which is held in position beams, are tapered from the lower to the and rests upon springs 30, the lower ends of 13 extends from the top of the bottom mem- | The side frames may also be connected by 95

thickened flange 13 and having its bottom truck is such that the metal is distributed in 100 below said flange. Strengthening ribs 15 the most advantageous manner so that the preferably support the bottom of the spring | side frame, while comparatively light, is extremely strong and rigid. At the same time sufficient clearance is secured between the track and the side frame and ample means 105 These oil box extensions 16 are tapered out- | are provided for the proper inspection of the brake hangers and brake beams.

Having fully described my invention, what

I claim as new and desire to secure by Letters Patent of the United States is:

1. In a car truck, the combination with the bottom member and truck column of a 5 side frame, of tie beams formed integral with and inclined upwardly from said bottom member, a T-flange on the upper edge of said tie beams and extending over said bottom member, a spring seat formed in said 10 bottom member and depressed below said T-flange, and strut members connecting the outer ends of said tie beams and the upper ends of said truck columns.

2. In a car truck, the combination with 15 the bottom member and truck column of a side frame, of tie beams formed integral with and inclined upwardly from said bottom member, oil box extensions formed integral with said tie beams and inclined outwardly 20 from their juncture therewith, a T-flange on the upper edge of said tie beams and extending over said bottom member, a spring seat

formed in said bottom member and depressed below said T-flange, and strut mem-25 bers extending from the upper ends of said truck columns to the juncture of said tie beams and oil box extensions.

3. In a car truck, the combination with the bottom member and truck columns of a 30 side frame, of tie beams formed integral with and inclined upwardly from the said bottom member, oil box extensions formed integral with said tie beams, a T-flange on the upper edge of said tie beams and extending 35 over the said bottom member to the upper edge of said oil box extensions, a spring seat formed in said bottom member and depressed below the said T-flange, and strut members connecting the upper ends of the 40 said truck columns with the juncture of said tie beams and oil box extensions.

4. In a car truck, the combination with the bottom member and truck columns of a side frame, of tie beams formed integral with 45 and inclined upwardly from said bottom

member, a T-flange on the upper edge of said tie beam and extending over said bottom member, said T-flange being expanded and thickened at its central part over the said bottom member, a spring seat formed in said 50 bottom member and depressed below the expanded and thickened portion of said Tflange, and strut members connecting the upper ends of said truck columns with said tie beams.

5. In a car truck, the combination with the bottom member and truck columns of a side frame, of tie beams formed integral with and inclined upwardly from said bottom member, oil box extensions formed integral 60 with said tie beams and inclined downwardly and outwardly from their juncture therewith, a T-flange on the upper edge of said tie beams and extending to the upper edge of the said oil box extensions, and strut 65 members extending between said tie beams. and truck columns, the upper edges of said strut members lying in a substantially straight line with the upper edges of said oil box extensions.

6. In a car truck, the combination with the bottom member and truck columns of a side frame, of tie beams formed integral with and inclined upwardly from said bottom member, oil box extensions formed integral 75 with said tie beams and inclined outwardly and downwardly therefrom, strut members extending between the upper ends of said truck columns and the juncture of said tie beams and oil box extensions, and a remov- 80 able compression member between said truck columns.

In testimony whereof, I have hereunto set my hand and affixed my seal in the presence of the two subscribing witnesses.

HERBERT W. WOLFF. [L. s.]

Witnesses:

W. A. ALEXANDER, ELIZABETH BAILEY.