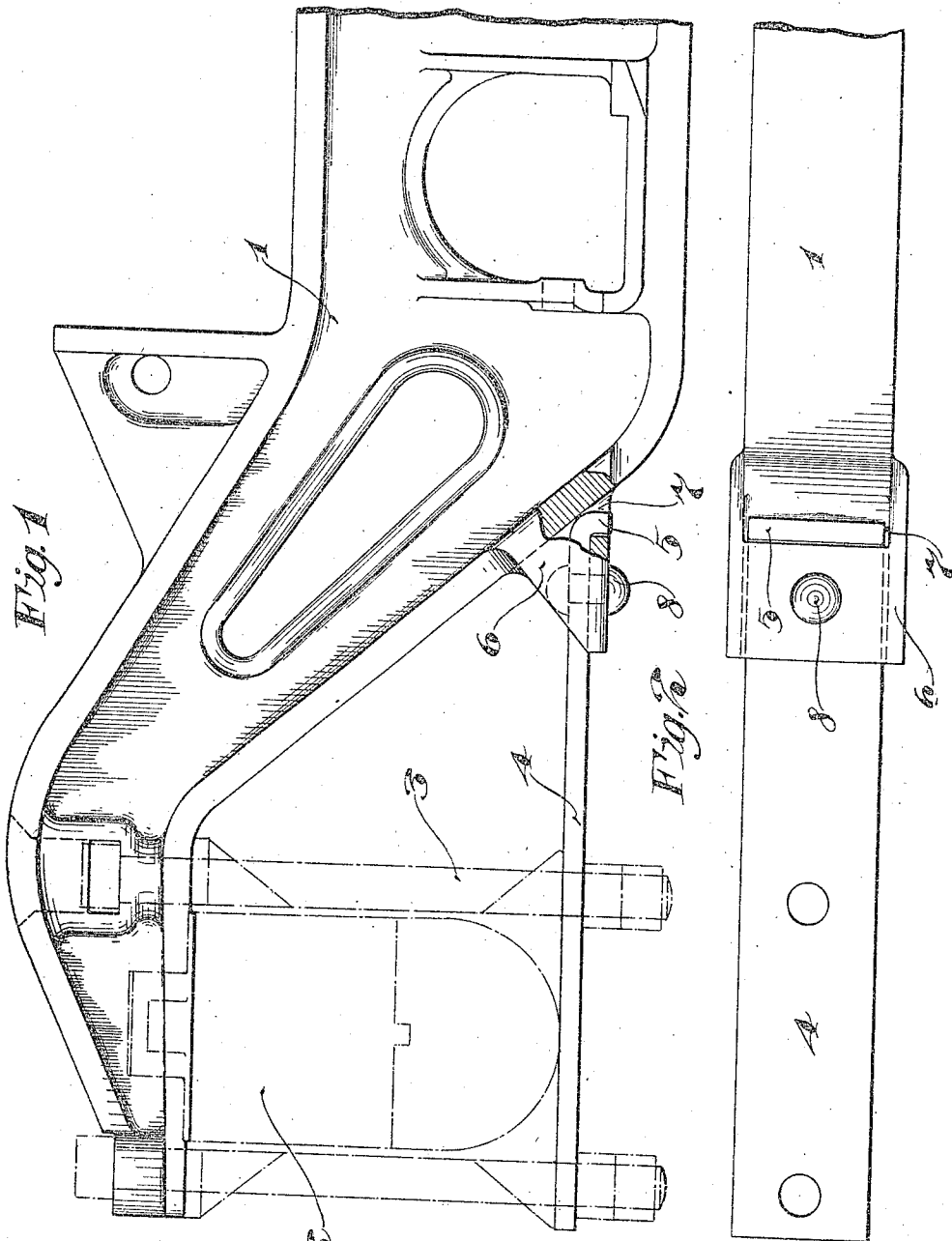


J. C. BARBER.
CAR TRUCK.

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1,044,848.

Patented Nov. 19, 1912.



Witnesses:
G. C. Knutson
E. C. Skinkle

Inventor:
J. C. Barber
By his Attorneys:
Williamson & McLean

UNITED STATES PATENT OFFICE.

JOHN C. BARBER, OF CHICAGO, ILLINOIS, ASSIGNOR TO STANDARD CAR TRUCK COMPANY, OF CHICAGO, ILLINOIS, A CORPORATION OF NEW JERSEY.

CAR-TRUCK.

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To all whom it may concern.

Be it known that I, JOHN C. BARBER, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Car-Trucks; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to car trucks, and more particularly to car trucks wherein cast side frames are employed; and the invention is directed to the provision of improved tie bars and means for attaching the same to the cast side frames. In car trucks of this type, it has sometimes been the practice to employ a single long tie bar for each side frame, but in later developments, it has been customary to employ two short tie bars, one for each journal box, and to rigidly secure the same to lugs cast on the side frames. My invention provides an extremely simple, highly efficient and generally improved means for connecting these tie bars to the truck side frames.

In the accompanying drawings which illustrate the invention, like characters indicate like parts throughout the several views.

Referring to the drawings, Figure 1 is a view in side elevation, showing a portion of a truck side frame having a tie bar attached thereto in accordance with my invention, some parts being broken away and some parts being indicated by dotted lines; and Fig. 2 is a bottom plan view of the truck side frame and tie bar shown in Fig. 1.

The numeral 1 indicates the cast truck side frame, the ends of which are adapted to rest upon the journal boxes 2, which latter are indicated in the drawings by dotted lines only. The usual nut-equipped bolts 3 are used to rigidly clamp the journal boxes 2 between the ends of the side frame 1 and the ends of the tie bars 4. These tie bars 4 are preferably made of flat steel bars, the inner ends of which are bent downward to afford anchoring lugs 5. For the application of these tie bars, the side frames 1 are provided

with integrally cast anchoring brackets or lugs 6 comprising horizontal bottom plates and laterally spaced flanges, which flanges embrace the sides of the tie bars, and which bottom plates are provided with slots 7, through which the down-turned ends 5 of the tie bars 4 are inserted. Rivets 8 passed through the inner end portions of the said tie bars and through the bottom plates of the said anchoring brackets, rigidly secure the inner ends of the said tie bars to the said brackets and cooperate with the lugs 5 to rigidly secure the said tie bars to the side frame. This simple expedient of interlocking the lugs on the ends of the tie bars in slots or perforations in the anchoring brackets permits of a rigid connection between the tie bars and side frames by the action of a single rivet to each tie bar. The construction is, therefore not only simple, of small cost and easy to assemble, but is strong and efficient for the purposes had in view.

What I claim is:

1. In a car truck, the combination with a side frame having an anchoring bracket thereon, said bracket having a pocket-like tie bar seat, of a tie bar having its inner end bent laterally and inserted into the said pocket-like seat, and a rivet rigidly connecting said tie bar to said bracket.

2. In a car truck, the combination with a cast side frame having an integral lug with a slot therein, of a tie bar having a lug at its inner end seated in said slot, and a single rivet securing said tie bar to said bracket.

3. In a car truck, the combination with a cast side frame having an integral lug comprising laterally spaced side flanges and a bottom plate with a slot therein, of a tie bar having its inner end inserted between the laterally spaced flanges of said bracket and having a lug seated in the slot thereof, and a single rivet rigidly securing said tie bar to said bracket.

In testimony whereof I affix my signature in presence of two witnesses.

JOHN C. BARBER.

Witnesses:

C. A. HAFNER,
LEE W. BARBER.