H. F. POPE.

TRUCK SIDE FRAME.

APPLICATION FILED MAR. 23, 1912.

1,064,003. Patented June 10, 1913.

Fig. 1

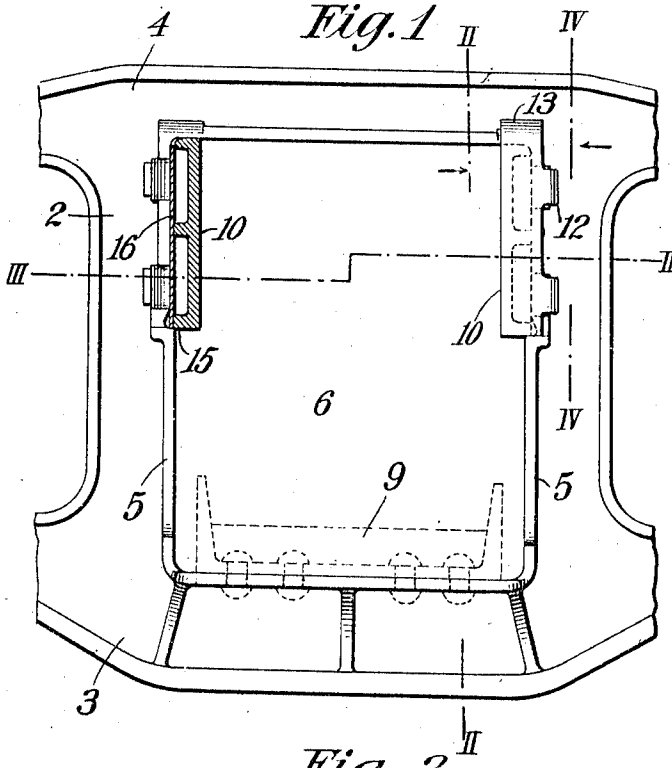


Fig. 2

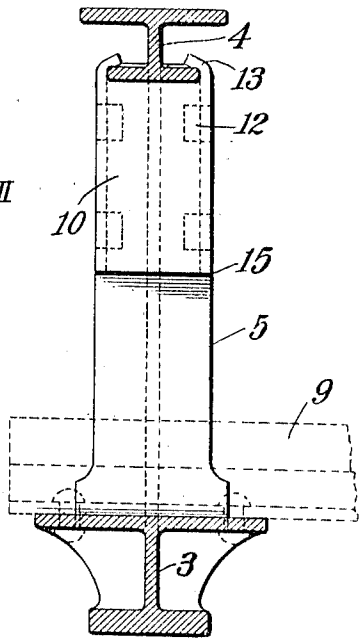
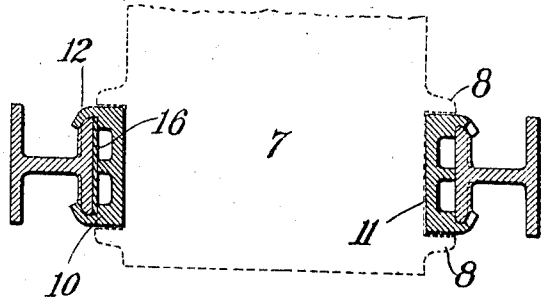


Fig. 3



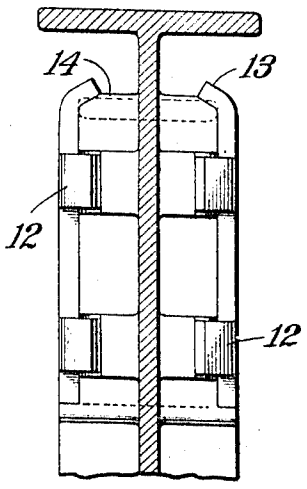


Fig. 4

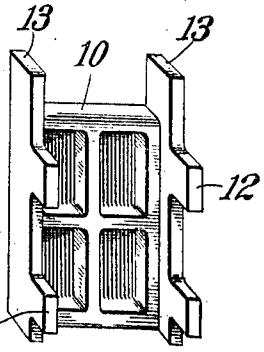


Fig. 5

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UNITED STATES PATENT OFFICE.

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TRUCK SIDE FRAME.

1,064,003. Specification of Letters Patent. Patented June 10, 1913.

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To all whom it may concern:

Be it known that I, HENRY F. POPE, a citizen of the United States, residing at Cleveland, Cuyahoga county, Ohio, have invented an Improvement in Truck Side Frames, of which the following is a specification, reference being had to the accompanying drawings, in which—

Figure 1 is an elevation of a portion of the side frame embodying my invention; Fig. 2 is a section on lines II—II of Fig. 1; Fig. 3 is a section on lines III—III of Fig. 1 showing the bolster in dotted lines; Fig. 4 is a section on lines IV—IV of Fig. 1; and Fig. 5 is a detail of the bearing member.

My invention relates to truck side frames, and is specifically directed to providing detachable bearings or guides in the bolster "window" and against which the truck bolster is designed to bear.

My improved bearings protect the columns at the sides of the bolster window against wear, and while, in service, they are firmly attached to the columns, they can readily be removed and replaced when they become worn.

Referring to the drawings: 2 is a truck side frame, preferably of integral construction and made of cast steel, having the usual tension member 3, the compression member 4 and the columns 5 made integral therewith.

6 is the bolster opening or window and 7 is the bolster having column guides 8, which secure the bolster to the side frame and prevent endwise movement of the bolster.

9 is a channel, bolted to the tension member 3 at the bottom of the window opening 6, which connects the side frame 2 with the side frame at the opposite side of the truck. The bearing members 10 are adapted to be secured to the upper parts of the columns 5, which are preferably slightly recessed, and form bearing surfaces against which the sides 11 of the bolster 7 bear between the column guides 8. The bearing members 10 have bendable lugs 12 and 13 which take about the columns 5 and the horizontal flanges 14 on the bottom of the compression member 4 at the top of the bolster window, and abut at their lower ends on the offsets 15 of the columns 5. The members 10 protect the columns 5 against wear and can readily be placed in position by means of the bendable lugs 12 and 13 which are sledged over the edges of the columns 5 and the horizontal flanges 14, and the members 10 are thus firmly secured to the columns 5. The members 10 can also be easily removed in case of wear by sledging free the bent over lugs 12 and 13 and thus releasing their engagement with the columns 5 and the flanges 14.

It is apparent that there will be a certain amount of wear on the sides 11 of the bolster 7 between the column guides 8 and bearing members 10, and in such case if the wear has been mainly on the sides of the bolster, the insertion of new bearing members 10 will not give the requisite tightness of fit between these parts. To provide for this wear I employ a shim plate 16 which can be inserted between one of the bearing members 10 and its column 5. The plate 16 is held against downward movement by the offset 15 of the column 5 and is clamped firmly to the column 5 by the bendable member 10. If necessary, in order to compensate for wear, shim plates 16 can be inserted between both bearing members 10 and the corresponding columns 5.

The bolster window is preferably made of sufficient cross-sectional area to admit the bolster into the lower portion of the window while in horizontal position. It can then be raised vertically, without tilting, to its normal position between the bearing members 10 with the column guides 8 taking about the longitudinal sides of these members 10.

It is obvious that without departing from my invention various modifications may be made in my device.

What I claim is:

1. In an integral side frame, an opening therein for the reception of a bolster, said opening having flanges thereabout, bearing plates positioned in the upper part of said opening and having lugs to clamp about said flanges, and being adapted to provide a bearing surface for the bolster and to protect the said frame against injury.

2. In a truck side frame, having therein an opening for a bolster, columns at the sides of said opening, bearing plates for the

bolster in the upper part of said opening adapted to be detachably secured to said frame by bendable means.

3. In a truck side frame, an opening for a bolster having an enlarged upper portion and a lower portion of sufficient cross-sectional area to admit the bolster in horizontal position, columns at the sides of said opening having recessed upper portions to provide bearing seats, and bearing plates adapted to be detachably secured to said columns on said bearing seats by bendable locking means.

4. In a truck side frame, an opening for a bolster having an enlarged upper portion, and a lower portion of sufficient cross-sectional area to admit the bolster in horizontal position, columns at the sides of said opening having recessed upper portions, a shim plate adapted to be seated in one of said recessed upper portions, and bearing plates for the bolster adapted to be detachably secured to said upper recessed portion of the columns, one of said bearing plates being adapted to take about said shim plate.

5. A truck side frame, having integral columns and compression and tension members, a bolster opening therebetween, and bearing plates for the bolster adapted to be clamped to the upper portions of the columns by bendable means.

6. A truck side frame having columns and compression and tension members, a bolster opening therebetween, and bolster bearing plates secured to the columns and the compression member by bendable lugs.

7. A truck side frame having columns and compression and tension members, a bolster opening therebetween, and bolster bearing members adapted to be clamped to the upper portions of said columns, and a plate interposed between one of said columns and one of said bearing members.

8. A bolster bearing member, comprised of a bearing plate, having bendable attaching means for attachment to a truck side frame.

9. A bolster bearing member, comprised of a bearing plate, having on its sides a plurality of bendable lugs adapted for attachment to the columns of a truck side frame.

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Witnesses:
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Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."