Mar. 20, 1923. 1,449,174

O. T. GREGG

JOURNAL BOX ATTACHMENT

Filed Oct. 27, 1922

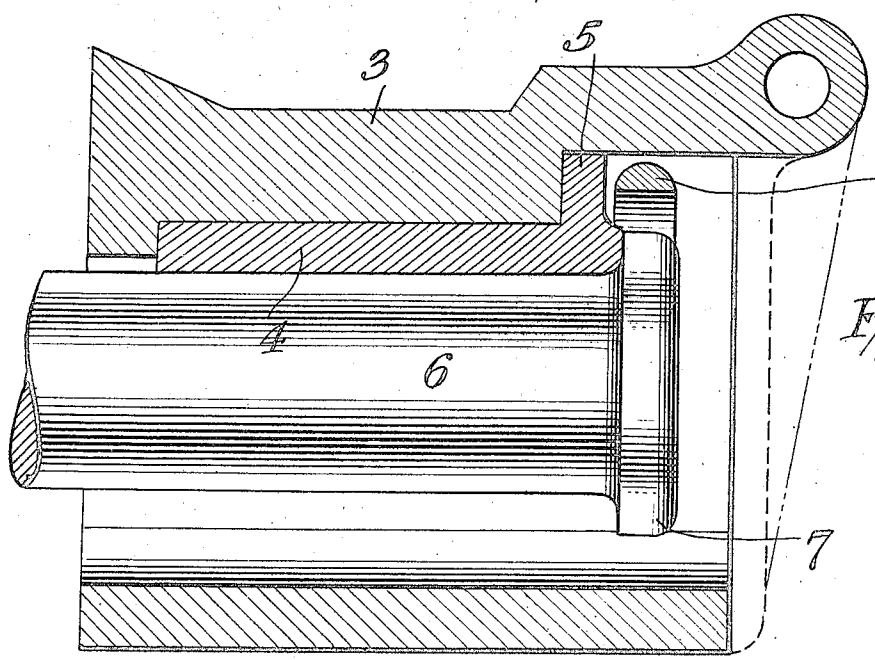


Fig. I.

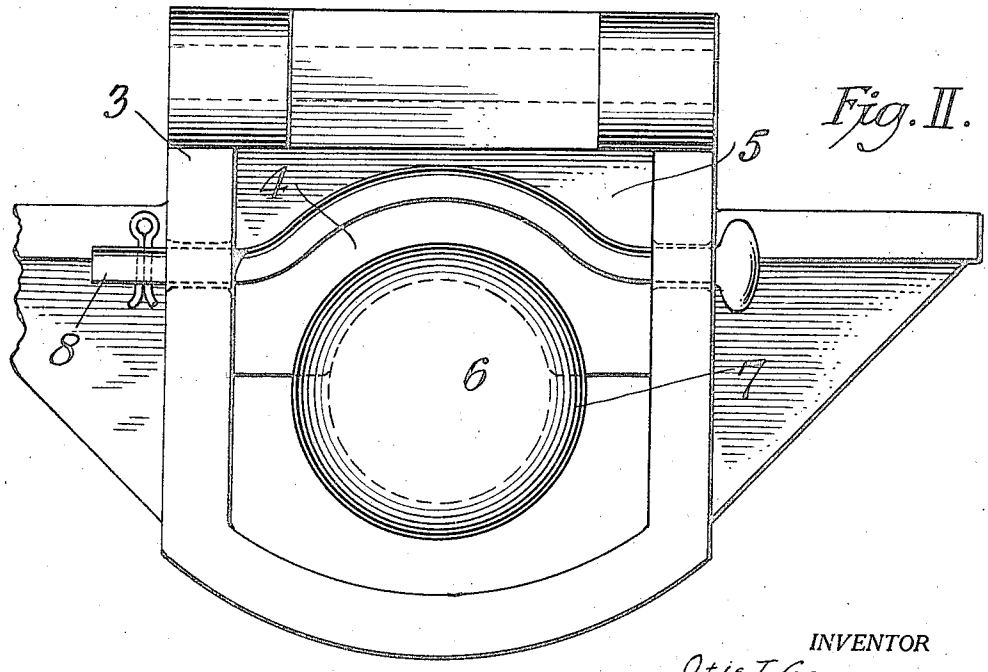


Fig. II.

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OTIS T. GREGG, OF HACKENSACK, NEW JERSEY, ASSIGNOR TO THE GREGG COMPANY, LIMITED, OF HACKENSACK, NEW JERSEY, A CORPORATION OF NEW YORK.

JOURNAL-BOX ATTACHMENT.

Application filed October 27, 1922. Serial No. 597,248.

To all whom it may concern:

Be it known that I, OTIS T. GREGG, a citizen of the United States, residing at Hackensack, New Jersey, have invented a new and useful Journal-Box Attachment, of which the following is a specification.

A number of different manufacturers supply sugar-cane plantations with cars and other appliances, and the various appliances and parts thereof have become more or less standarized as to dimensions. Consequently the plantation can order of any such manufacturer a stock-part which will fit the standardized appliance on hand. Among other such standardized devices may be noted a journal-box adapted to carry a bearing-block having at its outer end an upturned square flange which fits into a squared recess in the outer part of the journal-box, said journal-box and bearing-block being designed to receive a car-axle having a collar around its end. Said bearing-block is retained in the journal-box by a transverse symmetrical pin passed through the box in front of the squared flange aforesaid, and located at a standard distance above the axle and its collar. In the course of service, the bearing-block becomes worn thin so that ultimately said axle-collar will come into contact with said retaining-pin and wear it away.

The object of the present invention is to provide an improved block-retaining pin which, without interfering with the standardized dimensions aforesaid, will not be worn away by the axle-collar.

The invention consists broadly of a non-symmetrical retaining-pin of approximately-uniform and unreduced cross-section throughout its length and bowed upwardly in the middle. The invention will be best understood by reference to the accompanying drawings, which illustrate a preferred embodiment thereof, and in which:

Fig. I is a vertical section taken longitudinally through the journal-box and bearing-block and axle-end, and showing one of the holes for the new retaining-pin; and

Fig. II is an end view of the same, with the box-cover removed, showing said new retaining-pin in position.

In these drawings 3 indicates a portion of the journal-box. 4 is the bearing-block located therein, and having at its outer end the upturned squared flange 5 fitted into a squared recess in said journal-box. 6 is the outer portion of the axle, having around its end the collar 7. All the foregoing is old. 8 is the new retaining-pin, a headed pin whose middle is bowed upwardly, as at 9, substantially concentric with respect to the axle and its collar, said pin being retained as by a cotter-pin. Said upwardly-bowed pin is of approximately-uniform and unreduced cross-section throughout its extent, instead of being a straight pin weakened by reduction of material along its lower face.

Preferably said bowed pin 8 and the holes therefor are non-symmetrical. Otherwise a careless workman might insert the pin with its bow downward, almost in contact with the axle-collar when first installed. Therefore, the two holes in the box and the pin itself are formed non-symmetrical, in the present instance being shown as semi-cylindrical, although any other non-cylindrical and unsymmetrical form may be employed, to insure that the pin can only be inserted with its bow upward.

The invention is not limited to the precise structure and arrangement herein shown; and parts of the invention may be employed to the exclusion of other parts, without departing from the broad spirit of the invention.

The invention having thus been described, what is claimed is:

1. The combination of an axle having around its end a collar, a bearing-block therefor terminating short of said collar and having at its outer end an upturned flange, a journal-box for receiving said bearing-block and axle, said box being provided at each side with a non-symmetrical hole located beyond the outer face of said flange and in the vertical plane through said collar, and an upwardly-bowed retaining-pin of uniform and unreduced but non-symmetrical cross-section throughout its length and fitted to enter said holes and lie in said vertical plane.

2. The combination of an axle having around its end a collar, a bearing-block therefor terminating short of said collar and having at its outer end an upturned flange, a journal-box for receiving the same and provided with two registering semi-cylindrical holes located beyond the outer face of said flange and in the vertical plane

through said collar, and an upwardly-bowed headed retaining-pin of uniform and unreduced cross-section throughout its length and adapted to enter said holes and lie in said vertical plane.

3. The combination of a bearing-block having at its outer end an upturned flange whose outer face is a flush continuation of the outer end of said block, a journal-box into which said block and its flange are fitted, and an upwardly-bowed semi-cylindrical retaining-pin of uniform and unreduced cross-section throughout its length and fitted into corresponding holes through said box and bearing against the outer face of said flange and block.

4. The combination of a bearing-block, a journal-box into which said block is fitted, and an upwardly-bowed retaining-pin of uniform and unreduced but non-symmetrical cross-section throughout its length and fitted into correspondingly-shaped holes in said box and bearing against the outer end of said block.

5. The combination of a bearing-block, a journal-box into which said block is fitted, and an upwardly-bowed retaining pin fitted into holes in said box and bearing against the outer end of said block, said pin being of uniform and unreduced cross-section throughout its length.

OTIS T. GREGG.