

No. 675,956.

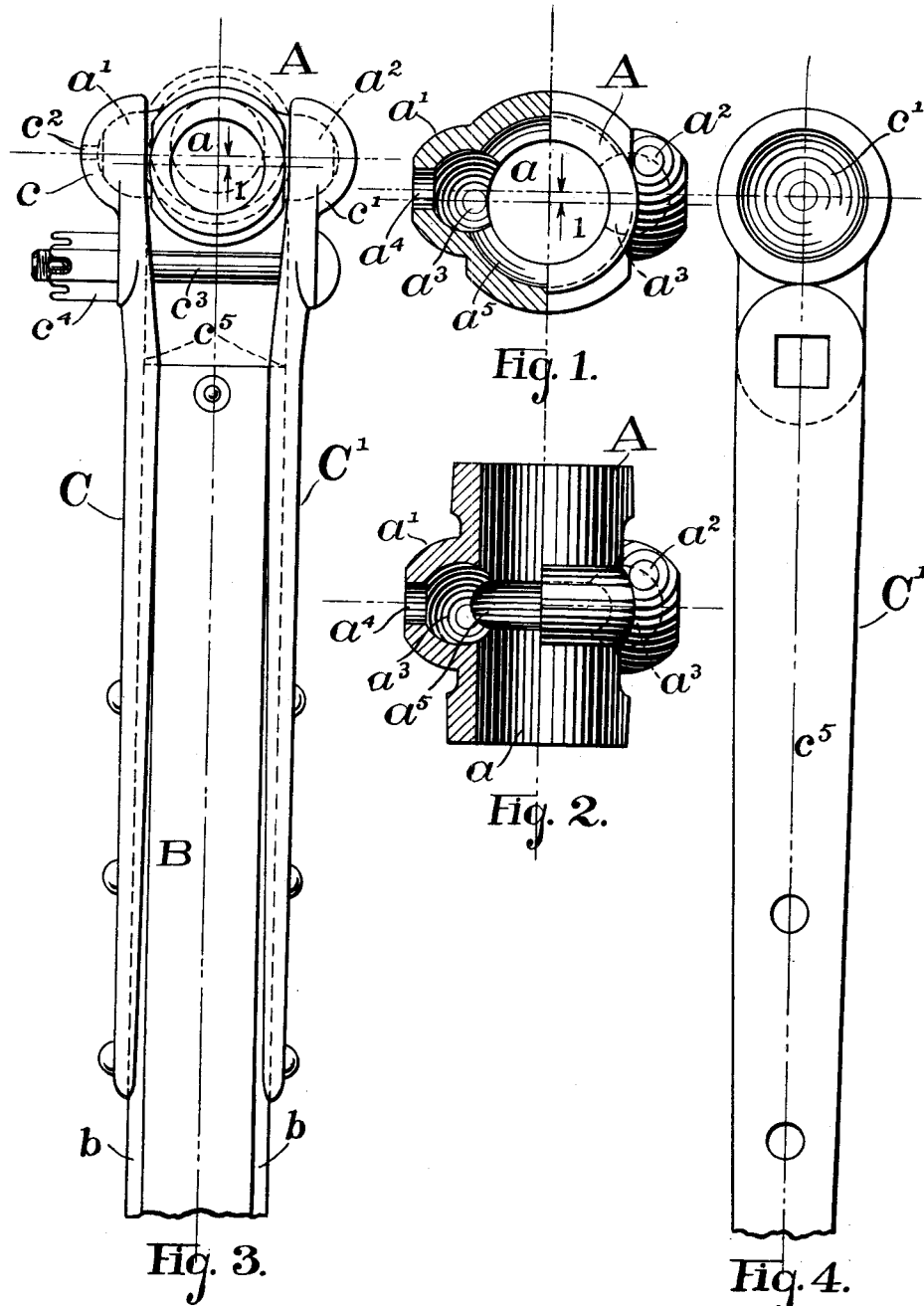
J. W. LATIMER.

Patented June 11, 1901.

PITMAN BOX.

(Application filed Mar. 25, 1901.)

(No Model.)



WITNESSES:

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# UNITED STATES PATENT OFFICE.

JOHN W. LATIMER, OF CHICAGO, ILLINOIS.

## PITMAN-BOX.

SPECIFICATION forming part of Letters Patent No. 675,956, dated June 11, 1901.

Application filed March 25, 1901. Serial No. 52,742. (No model.)

*To all whom it may concern:*

Be it known that I, JOHN W. LATIMER, 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 Pitman-Boxes; 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, reference being had to the accompanying drawings, forming a part of this specification.

My invention relates to journal-boxes for pitmen, and, as here illustrated, is especially adapted to pitmen for harvesting-machines.

It has for one object to provide a journal-box by means of which the length of the pitman may be altered a predetermined amount, so as to compensate to some extent for variations in manufacture, to the end that the cutter may be made to register with the guards of the finger-bar.

It has for its further object to provide improved means for oiling said journal-box.

In the drawings, Figure 1 is a partial transverse sectional view of the box. Fig. 2 is a partial longitudinal sectional view of the box. Fig. 3 is a side elevation of the box mounted in the pitman, a portion only of the latter being shown; and Fig. 4 is a side elevation of one of the straps in which the box is mounted and by means of which it is secured to the pitman.

The journal-box A (shown in Fig. 1) consists of one piece of brass or other suitable material, having the bore *a* to receive the wrist-pin. Oppositely disposed, substantially equidistant from the ends, are formed the pivots *a'* and *a''*, preferably hemispherical, the axis of which is at right angles to the longitudinal axis of the box, as shown in Fig. 2, but does not pass through said axis, however, but a little aside, as shown at *l* in Fig. 1.

Within the hemispherical pivots *a'* and *a''* are the recesses *a<sup>3</sup>* and *a<sup>4</sup>*, which serve as oil-cups, both of which open into the bore *a*. In the wall of the pivot *a'* is an oil-hole *a<sup>4</sup>* for supplying oil to the oil-cups. These two recesses or oil-cups are connected by means of the annular grooves *a<sup>5</sup>* and *a<sup>6</sup>*. I thus furnish very efficient means for oiling the journal.

The connecting-arm B of the pitman has

secured to it the connecting-straps C and C'. At the outer end of these straps are provided the sockets *c* and *c'*, adapted to receive the hemispherical pivots *a'* and *a''*, respectively, of the journal-box A, as shown in Fig. 3. In the wall of the socket *c* is the oil-hole *c<sup>3</sup>*, which registers with the oil-hole *a<sup>4</sup>* of the pivot *a'*. It is desirable that the said outer ends of the connecting-straps be adapted to be readily spread apart, so that the journal-box may be removed or replaced. This may be accomplished in any suitable manner, preferably, however, by riveting the straps C and C' to the pitman at a considerable distance from their outer ends, thus allowing the straps to be sprung apart to receive the box. The said straps are held in positive engagement with the box by means of the bolt *c<sup>3</sup>* and the lock-nut *c<sup>4</sup>*, but in such a manner that the said box is free to oscillate on its pivots. This provides means for taking up the wear. To insure satisfactory bearings, the extremities of the said pivots are cut off; otherwise as they wore they would bear too heavily in the bottoms of the said sockets, and thus prevent the necessary adjustment. The inner surfaces *c<sup>5</sup>* of the straps are made concave to fit the convex surfaces *b* of the connecting-arm B, serving to make the securement more rigid.

By pivoting the journal-box A eccentrically with respect to the bore *a* the length of the pitman may be altered by simply loosening the bolt *c<sup>3</sup>* and turning the box on its pivots *a'* and *a''* one hundred and eighty degrees. For instance, if the pitman, as shown in Fig. 3, be found to be a trifle short when put in the machine, it may be lengthened by turning the box over on its pivots, when it will take the position shown by the dotted lines and lengthen the pitman to an amount equal to twice the eccentricity.

It is evident that a plurality of pivots might be provided, if necessary, each having a different amount of eccentricity with the bore of the box, and thus furnish a greater number of adjustments. Hence I do not wish to limit myself to the exact construction as herein shown.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. In a pitman the combination of a connecting-arm and a journal-box secured thereto, the axis of the securement of which is substantially at right angles to the bore of the box and eccentric therewith.

2. In a pitman the combination of a connecting-arm and a journal-box eccentrically pivoted therein, substantially as and for the purpose described.

3. In a pitman the combination of a connecting-arm, connecting-straps and a journal-box eccentrically pivoted in said straps, substantially as and for the purpose described.

4. In a pitman the combination of a connecting-arm, elastic connecting-straps, a journal-box eccentrically pivoted in said straps and means for making the engagement of said straps with said journal-box positive, substantially as described.

5. In a pitman the combination with a connecting-arm and yielding connecting-straps, of a journal-box eccentrically pivoted in said straps and means for making the engagement of said straps with said journal-box positive, the pivots of said journal-box having recesses forming oil-cups, substantially as described.

6. In a pitman the combination with a connecting-arm and yielding connecting-straps,

of a journal-box eccentrically pivoted in said straps and means for making the engagement of said straps with said journal-box positive, said journal-box having recesses forming oil-cups within its pivots and annular grooves connecting said oil-cups, substantially as described.

7. In a pitman the combination with a connecting-arm B and yielding connecting-straps C and C', of a journal-box A eccentrically pivoted in said straps and the bolt  $c^3$  and nut  $c^4$  adapted to make the engagement of said straps with said journal-box positive, said journal-box having the hemispherical pivots  $a^1$  and  $a^2$ , the therein-contained oil-cups  $a^3$  and  $a^3$  and the connecting annular grooves  $a^5$  and  $a^5$ , substantially as described.

8. In a pitman the combination of a connecting-arm and a journal-box pivoted therein, said journal-box having recesses forming oil-cups within its pivots and one or more annular grooves connecting said oil-cups, substantially as described.

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

JOHN W. LATIMER.

Witnesses:

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