Sept. 8, 1931. H. GOODSON 1,822,807

PITMAN BOXING

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Fig. 1.

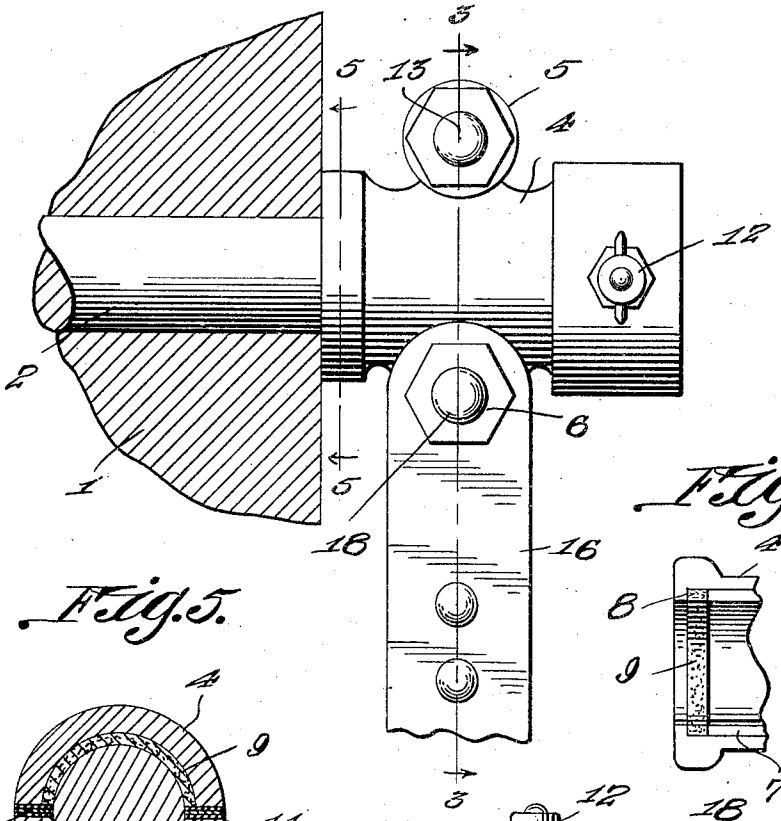


Fig. 6.

Fig. 5.

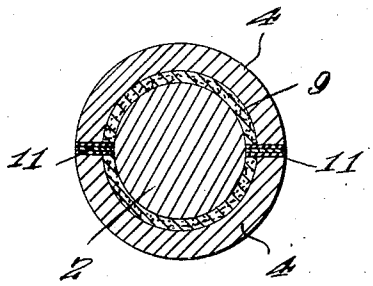
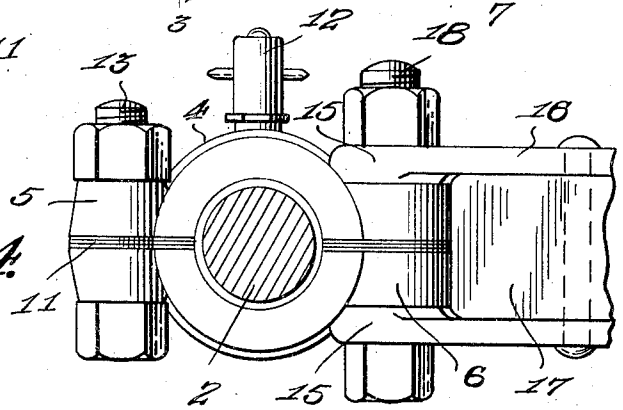


Fig. 4.



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WITNESS:

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Fig. 2.

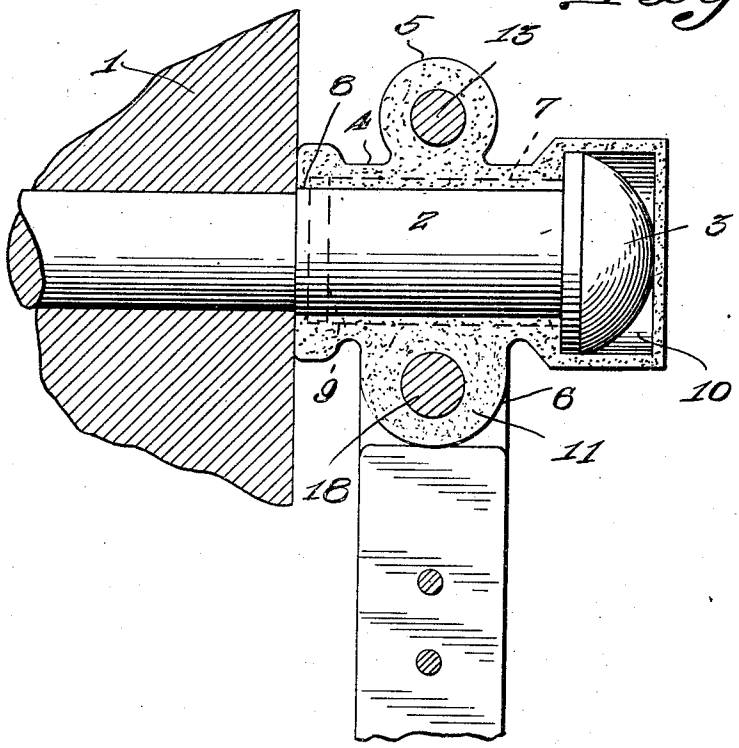
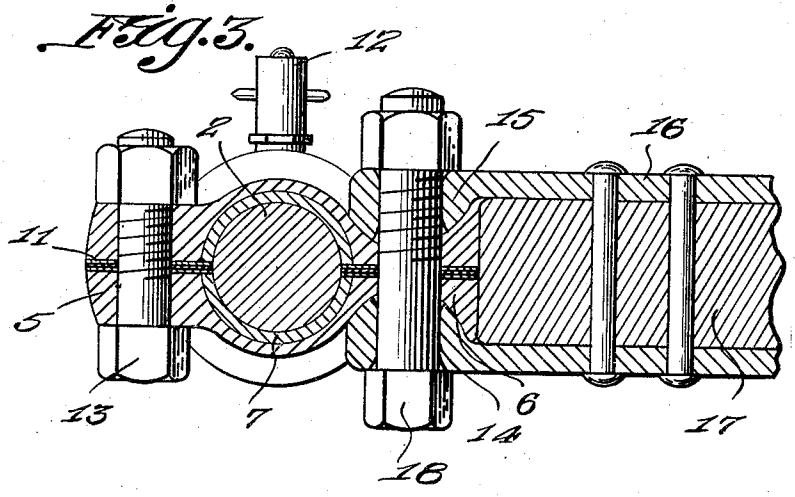


Fig. 3.



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Patented Sept. 8, 1931 1,822,807

UNITED STATES PATENT OFFICE

HENRY GOODSON, OF CLARETON, WYOMING

PITMAN BOXING

Application filed April 7, 1930. Serial No. 442,409.

The object of this, my present invention, is the provision of a bearing connection between the pitman and the wrist pin for mowing machines, binders, etc., of a construction whereby the bearing is held from longitudinal movement on the wrist pin, comprises a pair of sections having shims at the confronting ends thereof to compensate for wear, having means whereby a lubricant is constantly fed into a well or pocket in which is seated the wrist pin, means for preventing the lubricant from splashing through the well as well as means whereby the jaws of the pitman are connected to the bearing box in a manner to insure free movement and proper sweep thereof.

For a full and comprehensive understanding of the invention reference is to be had to the following description which is to be read in connection with the accompanying drawings which form part of the application and in which:

Figure 1 is a plan view of the improvement, a portion of the fly wheel being in section.

Figure 2 is a plan view of the lower member of the bearing box, the bolts which connect the bearing box sections and the bolts which attach the straps to the wooden pitman as well as the fly wheel being in section.

Figure 3 is a sectional view approximately on the line 3—3 of Figure 1.

Figure 4 is an end elevation of the improvement, the wrist pin being in section.

Figure 5 is a sectional view approximately on the line 5—5 of Figure 1.

Figure 6 is a detail plan view looking toward the inner end of one of the box sections.

In the showing of the drawings I have illustrated my improvement as applied to a mowing machine, but obviously the same can be associated with a binder or with any other device to which the same is applicable.

In the drawings the numeral 1 designates a portion of a fly wheel and 2 the wrist pin therefor. The wrist pin has an outer integrally formed enlarged head 3.

My improved bearing box comprises two substantially similar sections each in the nature of a casting and which sections are associated to provide the box with a tubular body portion 4. The sections of the box, at their meeting ends have their outer edges centrally formed with rounded enlargements in the nature of ears 5 and 6, respectively, which, of course, are designed to be arranged in lapping relation. Through the bore of the box 4 the wrist pin is received, but the bore, from one end of the body 4 to adjacent its second or inner end is of a greater area than the cross sectional diameter of the wrist pin and there is received in this bore semi-circular brass or bronze bushings 7. The inner and restricted portion of the bore provides a shoulder 8 that is contacted by a two-part felt washer 9 which is also contacted by the bushings 7. The outer end of the body 4 is enlarged to provide the same with a finger pocket 10 in which the headed end 3 of the wrist pin 2 is received. In addition to this the pocket provides a well for a lubricant.

Arranged over the confronting surfaces of the two-part bearing box there are any desired number of shims 11 which, of course, corresponds to both the inner and outer contour of the said box. These shims provide an important part of the invention, as the same will be increased in number or decreased in accordance with the wear between the box and the wrist pin.

The upper section of the box, at its widened outer end has screwed therethrough a nipple 12 closed by a depressible valve and which valve is designed to be opened by an alemite or like gun for forcing the lubricant into the pocket 10.

The ears 5 and the shims which are arranged over the ears have passed therethrough a bolt 13 which is engaged by the usual nut, while the ears 6 have their outer faces provided with rounded concaved portions 14 for the reception of the bosses on jaws 15 on the straps 16 of the wooden pitman 17. There is passed through the jaws 15, the ears and the shims that are arranged between the ears a bolt 18 which is engaged by a suitable nut. The walls provided by the openings in the jaws 15 through which the bolt 18 passes

are rounded from their ends to their center or the bolt 18 may pass loosely through the said openings and whereby a vertical as well as a lateral swinging of the pitman is afforded.

With my improvement it will be noted that the pocket or well 10 is filled with a lubricant and this lubricant will be delivered to both the head and the body of the wrist pin and onto the bearing bushings 7. The lubricant cannot escape through the bearing box because of the shims therebetween and likewise because of the felt washers 9, so that any liability of lubricant splashing through the device will be thus avoided.

The construction and advantages of my improvement will, it is thought, be understood and appreciated so that further detailed description will not be required.

Having described the invention, I claim:

A bearing box for the wrist pin and for the jaws of a pitman comprising a two-part casting that includes a tubular body in which the wrist pin is received, bushings in the body providing bearings for the wrist pin, felt washers around the wrist pin and closing the inner end of the body, the outer end of the body being enlarged to provide a pocket for the head of the wrist pin, shims conforming to the shape of the body and arranged between the confronting faces of the body sections, ears formed on the body at the opposite sides thereof, an adjustable bolt passing through one pair of ears, the second pair of ears having their ends concaved to receive the jaws of a pitman therein, an adjustable bolt securing the jaws in said ears, and a nipple having a normally closed valve screwed in the widened outer end of the body and providing a means for admitting lubricant into such end of the body.

In testimony whereof I affix my signature.

HENRY GOODSON.