A. B. McFARLAND.

HEADER PITMAN.

APPLICATION FILED APR. 21, 1917.

1,280,261.

Patented Oct. 1, 1918.

FIG. 1.

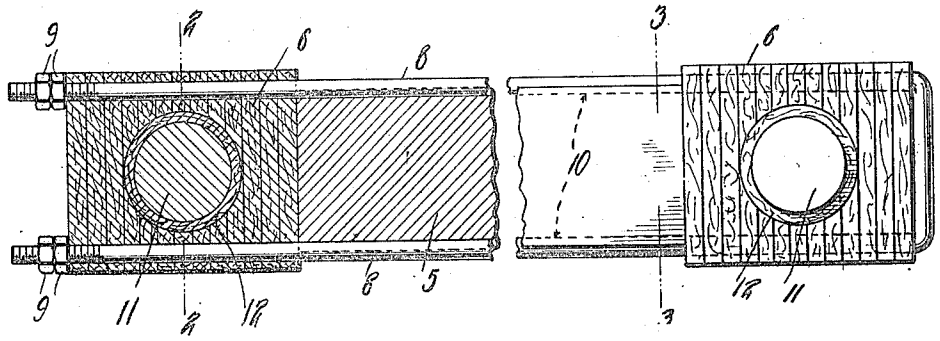


FIG. 2.

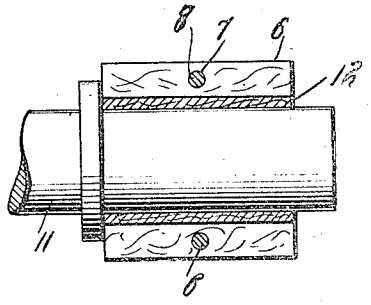
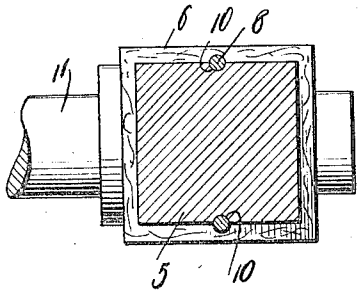


FIG. 3.



INVENTOR

Art B. McFarland

WITNESSES

W. C. Fielding.

A. R. Gow.

BY Richard Bevan.

ATTORNEY

UNITED STATES PATENT OFFICE.

ART B. McFARLAND, OF BLACKWELL, OKLAHOMA.

HEADER-PITMAN.

1,280,261. Specification of Letters Patent. Patented Oct. 1, 1918.

Application filed April 21, 1917. Serial No. 163,700.

To all whom it may concern:

Be it known that I, ART B. McFARLAND, a citizen of the United States, residing at Blackwell, in the county of Kay and State of Oklahoma, have invented certain new and useful Improvements in Header-Pitmen, of which the following is a specification.

This invention relates to power connections, and particularly to connecting rods, pitmen and the like.

The invention has for its primary object to provide a pitman or connecting rod for use particularly in connection with headers, mowing and other machines which is capable of establishing a positive driving connection between the rotatable and reciprocatory elements without the "knocking" and straining which is now commonly present in machines of the character mentioned. A further object of the invention is to provide a power transmitting element of the class mentioned which will prove strong and durable and at the same time simple and inexpensive, and which is capable of being readily adjusted to compensate for wear or looseness at the point of connection with the driving or driven elements.

With these objects in view, together with others which will appear as the description proceeds, the invention resides in the novel formation, combination, and arrangement of parts, all as will be described more fully hereinafter, illustrated in the drawings, and particularly pointed out in the claims.

In the drawings:—

Figure 1 is a side elevation, parts broken away, of a pitman or connecting rod constructed in accordance with the invention;

Fig. 2 is a sectional view taken transversely through the pitman on the line 2—2 of Fig. 1; and

Fig. 3 is a similar view taken on line 3—3 of Fig. 1.

The invention comprehends generally the arrangement of a pitman or connecting rod for establishing a power connection between the driving and the driven element, which has its crank or wrist pin engaging portions constructed of resilient or pliable material, so that tight engagement of the pitman at its point of connection with such elements is at all times assured. The material of which the wrist or crank pin engaging portions of the pitman is formed is, in the present instance, a tough relatively heavy leather, which may be thoroughly saturated with oil, so as to increase the durability and wearing qualities of the leather, as well as to insure proper lubrication and overcome the possibilities of burning out of the material.

More particularly, the body portion of the pitman is indicated at 5, and may be formed of wood or any other suitable material. The leather or pliable material for engagement with the wrist or crank pins is connected to the ends of this body portion, and is indicated at 6. The leather is cut into squares of equal dimensions, and the various squares are assembled face to face. These squares are preferably a trifle larger than is the body portion 5 in cross section, and the squares are provided adjacent their upper and lower ends with alined apertures 7, to receive the longitudinally extending tie bolts or rods 8. The tie bolts in the present instance are formed of a single piece or bar of metal, bent into substantially U-shape, so that the legs of the said bar will engage upon the upper and lower faces of the body portion 5 of the pitman. The extremities of the leg portions are threaded as shown, and are equipped with jam nuts 9 for securely binding the end portions to the body 5. The body portion is illustrated as being provided upon its upper and lower faces with central and longitudinally disposed grooves 10, within which the legs of the tie member rest, and this particular construction eliminates the possibility of the tie bolts moving laterally of the pitman body. When the layers or thicknesses of leather have been properly assembled upon the ends of the body 5, and the nuts 9 have been tightly screwed upon the ends of the legs of the tie member, it is apparent that the said layers or thicknesses will be tightly jammed together and held firmly to the ends of the body.

The heads thus formed at the extremities of the pitman are bored to receive the crank or wrist pins 11 of the driving and driven elements, and if desired these heads may be provided with oil ducts so that lubricant may be introduced to the points of contact. Each of the bored portions of the heads is shown as being provided with a bushing 12, to snugly fit around the wrist or crank pins.

From this description, it is apparent that I have provided an extremely simple and yet thoroughly efficient means for attaining the desired ends. By tightening the jam

nuts 9 upon the ends of the tie rods, it is obvious that tight adjustments may be made, and proper engagement of the heads with their respective pins is assured. It is preferred that the layers of pliable material be thoroughly saturated with oil, in order that the wearing qualities of the material will be improved. The material of which these heads are formed is mentioned herein as being of leather, but it is to be understood that the invention is not restricted to use with material of this character, as other hide or fibrous materials may, with equal facility, be employed.

While the present is a disclosure of what is believed to be the preferred embodiment of the invention, it is to be understood that the invention is not limited thereto as various changes in the minor details of construction, arrangement and proportion of parts may be resorted to, without departing from the spirit of the invention as defined in the appended claims.

What is claimed is:—

1. A pitman having heads formed of tough pliable material saturated with oil.

2. In a pitman, a body comprising an elongated bar, heads formed of pliable material, the said heads having longitudinally disposed openings, and tie rods extending through said openings and throughout the length of said body for holding said heads to said body.

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

ART B. McFARLAND.

Witnesses:
J. J. Price,
C. W. Duke.