

W. L. CHRYSLER.
PITMAN CONNECTION.
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993,757.

Patented May 30, 1911.

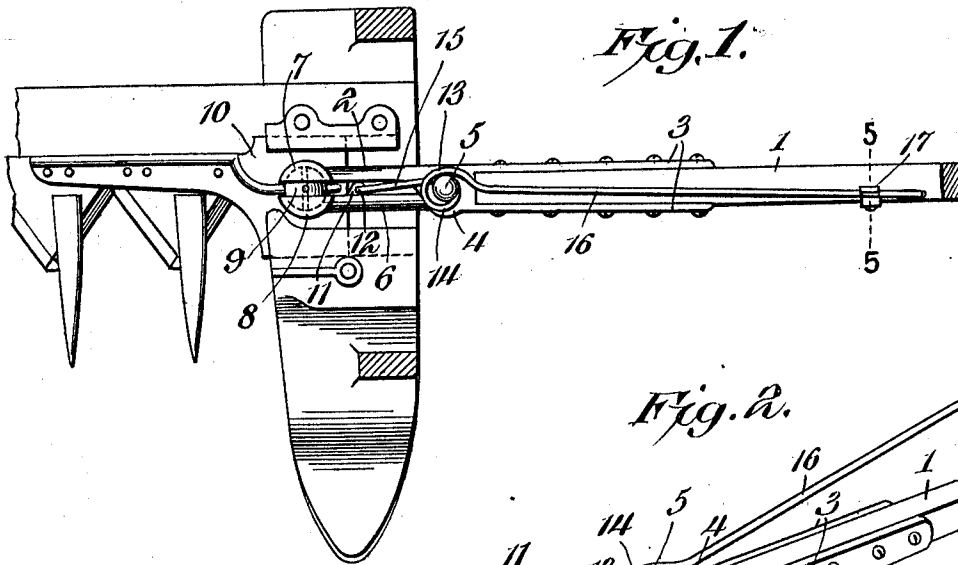


Fig. 1.

Fig. 3.

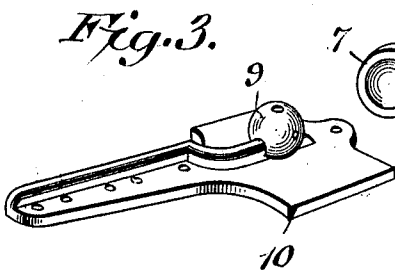


Fig. 5.

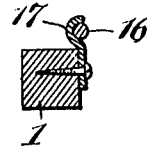
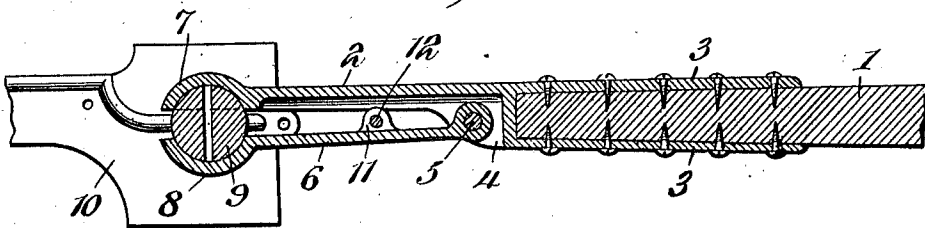


Fig. 4.



WITNESSES

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PITMAN CONNECTION.

993,757.

Specification of Letters Patent.

Patented May 30, 1911.

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To all whom it may concern.

Be it known that I, WILLIAM L. CHRYSLER, a citizen of the United States, residing at Eugene, in the county of Lane and State of Oregon, have invented a new and useful Pitman Connection, of which the following is a specification.

The invention relates to improvements in pitman connections for harvesting machines, etc.

The object of the present invention is to improve the construction of pitman connections, and to provide a simple, inexpensive and efficient device, designed more particularly for use in connection with knife heads of mowing machines, and capable of enabling the knife or cutter bar to be instantly detached without removing a bolt or similar fastening device, and adapted to yieldably engage the ball bearing of a knife head and maintain a constant pressure of the proper degree of tightness against the same, whereby wear and lost motion are automatically taken up.

With these and other objects in view, the invention consists in the construction and novel combination of parts hereinafter fully described, illustrated in the accompanying drawing, and pointed out in the claims hereunto appended; it being understood that various changes in the form, proportion, size and minor details of construction, within the scope of the claims, may be resorted to without departing from the spirit or sacrificing any of the advantages of the invention.

In the drawing: Figure 1 is a plan view of a pitman connection, constructed in accordance with this invention and shown applied to the knife head of a mowing machine. Fig. 2 is a detail perspective view of the pitman connection, the cooperating spoons being open. Fig. 3 is a similar view of the knife heads. Fig. 4 is a horizontal sectional view of the pitman connection and the knife head. Fig. 5 is a detail sectional view on the line 5—5 of Fig. 1.

Like numerals of reference designate corresponding parts in all the figures of the drawing.

In the embodiment of the invention illustrated in the accompanying drawing, 1 designates the pitman of a mowing machine to which is firmly secured a relatively fixed spoon 2 by means of integral straps 3, lying

upon either side of the pitman rod and fastened to the same by screws, or other suitable fastening devices. The spoon 2 is provided adjacent to the straps 3 with spaced perforated ears or flanges 4, between which is pivoted by means of a suitable pintle 5 a cooperating spoon 6, which is adapted to swing toward and from the fixed spoon to open and close the pitman connection. The fixed and pivoted spoons are provided at their outer ends with corresponding sockets 7 and 8, adapted to receive and fit a ball 9 of a knife head 10 of the ordinary construction.

The pitman connection is applicable to various mowing and harvesting machines equipped with the usual knife head having a ball, and the pivoted jaw is provided at its inner side with a laterally extending perforated lug 11, which receives an inwardly bent terminal 12 of a spring 13. The spring 13, which is constructed of resilient wire or other suitable material, extends longitudinally of the pitman connection and is coiled at an intermediate point to form a spring coil 14 and to provide an eye, which is arranged on the upper portion of the pivot or pintle 5. The spring coil 14 is fitted against one of the ears or flanges 4, and is retained on the pivot or pintle by the head thereof. The outer arm or portion 15 of the spring is connected with the said lug 11 and the inner arm or portion 16 is extended along the pitman rod and is detachably held in fixed relation with the same by a catch 17. The catch 17, which is in the form of a hook, consists of an inner plate or attaching portion and an upper or outer engaging portion. The attaching portion is suitably secured to the front side or face of the pitman rod, and the engaging portion is located above the latter and forms a recess at the front of the catch to receive the inner arm or portion of the spring. The spring will be constructed of the proper strength to exert the desired pressure on the pivoted spoon or member of the pitman connection, and it is placed under tension through its engagement with the catch and is adapted to maintain the pivoted spoon yieldably in engagement with the ball to take up the wear automatically and to prevent lost motion.

When it is desired to open the pitman connection to uncouple the knife or cutter bar, it is only necessary to disengage the inner

arm or portion of the spring from the catch, which may be instantly done. This releases the pivoted spoon and permits the same to open.

5 While the pitman connection is shown applied to the knife head of a mowing machine, it is obvious that it is equally well adapted for use in various other relations, where a detachable flexible connection between moving
10 parts is desired.

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

1. A pitman connection including a pair
15 of cooperating spoons, one of the spoons being fixed and the other being pivoted, a spring extending longitudinally of the pitman connection and provided at an intermediate point with a spring coil forming an
20 eye, a pivot passing through the eye of the spring, means for connecting the outer portion of the spring with the pivoted spoon, and a fixed catch detachably holding the inner
25 portion of the spring and maintaining the latter under tension.

2. A pitman connection including a pair of cooperating spoons, one of the spoons being fixed and the other pivoted, a spring extending longitudinally of the pitman
30 connection and mounted at an intermediate point on the pivot of the same, the outer portion of the spring being connected with the

pivoted spoon, and means for detachably holding the inner portion of the spring.

3. A pitman connection including a fixed
35 spoon, a cooperating movable spoon provided at its inner side with a lug, a pivot connecting the movable spoon with the fixed spoon, a longitudinal spring provided at an intermediate point with an eye arranged on
40 the said pivot, the outer arm or portion of the spring being connected with the lug of the movable spoon, and a catch for holding the inner arm or portion of the spring.

4. A pitman connection including a fixed
45 spoon, a movable cooperating spoon, a pivot connecting the movable spoon with the fixed spoon and having an extended upper portion, a spring disposed longitudinally of the coupling and provided at an intermediate
50 point with a spring coil forming an eye and arranged on the extended upper portion of the pivot, the outer portion of the spring being connected with the pivoted spoon, and means for holding the inner portion of the
55 spring.

In testimony, that I claim the foregoing as my own, I have hereto affixed my signature in the presence of two witnesses.

WILLIAM L. CHRYSLER.

Witnesses:

B. F. GOODPARTNER,
ECHO L. HAWK.