

E. McWHORTER.
PITMAN CONNECTION.

No. 179,714

Patented July 11, 1876.

Fig. 1.

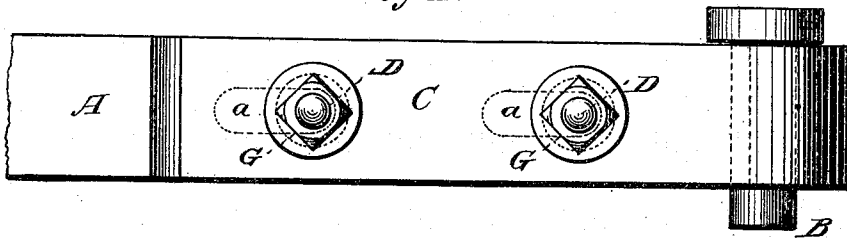


Fig. 2.

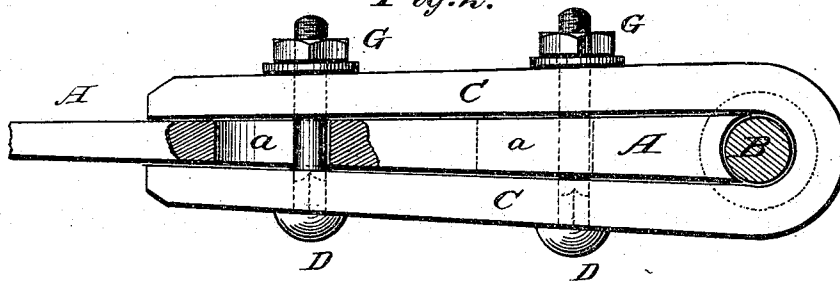


Fig. 3.

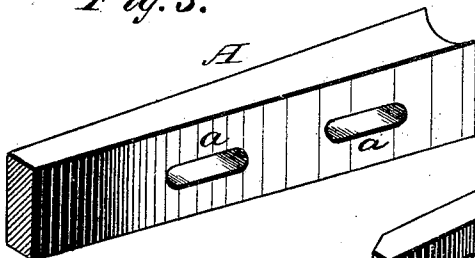
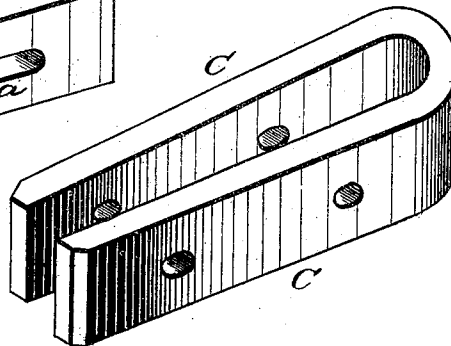


Fig. 4.



Witnesses:

P. C. Dieterich.
Wm. Supperman.

Ellis M. Whorter Inventor.

UNITED STATES PATENT OFFICE.

ELLIS McWHORTER, OF STERLING, ILLINOIS.

IMPROVEMENT IN PITMAN-CONNECTIONS.

Specification forming part of Letters Patent No. **179,714**, dated July 11, 1876; application filed February 9, 1876.

To all whom it may concern:

Be it known that I, ELLIS McWHORTER, of Sterling, in the county of Whitesides and State of Illinois, have invented certain new and useful Improvements in Pitman-Connections; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

The nature of my invention consists in the construction and arrangement of the end of a pitman, where the same is connected to a crank, wrist-pin, or other similar device, whereby the pitman may be adjusted to take up any lost motion caused by wear, and be firmly held in position when so adjusted, as will be hereinafter more fully set forth.

In the annexed drawing, Figure 1 is a plan view of the end of a pitman embodying my invention. Fig. 2 is a side view thereof. Figs. 3 and 4 are detached perspective views of the parts of the same.

A represents the end of the pitman proper, which is made wedge-shaped, as shown in Fig. 2, and provided with two longitudinal slots, *a a*, for the passage of the fastening and tightening-bolts. B represents the crank or wrist-pin to which the pitman is to be connected. C is a metal bar or strap bent around the crank-pin B, and having pitman A placed between the two arms of said bent bar up against the crank-pin, the extreme end of the pitman being made concave to fit said pin. The bar or strap C is flexible, so that as the pitman is adjusted to compensate for wear the bar or strap always fits the pitman the entire length of the strap closely, in which respect this device differs from all others in use by the advantages gained by the flexible strap. The parts A and C are then fastened together by bolts D D, which are passed through holes in the bent bar C, and through the slots *a* in the pitman. Nuts G G are then screwed up on the bolts D to tighten the parts firmly together.

It will readily be seen that when thus fastened the pitman A cannot slip, on account of its wedge form. When, however, the pin or the eye, formed by the bent bar C and concave end of the pin, wears so as to make more or less lost motion, it is simply necessary to loosen the bolts D, when the pitman A can be moved up against the crank-pin, and then fastened again fully as secure as before.

This device is intended to be applied at both ends of a pitman for mowers, and other similar machines, and may also be applied to any other pitman to take up the lost motion caused by wear.

I am aware that slides the shape of the pitman A, and capable of being moved up against the crank-wrist, have been heretofore used, and I do not broadly claim the pitman A as new. But in like devices heretofore used the wear and waste in the journal or crank-wrist could be obviated but on one or, at the most, on two sides, while in my invention, by means of the combination of the flexible strap C with the pitman A, the parts being united closely by the two bolts, the strap C is made to inclose three sides of the wrist B, while the pitman A is adjusted against the fourth or remaining side, thus enwrapping the entire surface of the wrist B, and compensating the necessary wear around its entire circumference by an adjustable surface, inclosing and in contact with such entire circumference.

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

The wedge-shaped pitman A, having concave end, and provided with the elongated slots *a a*, in combination with the flexible bent bar or eye C, bolts D, and nuts G, substantially as and for the purposes herein set forth.

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

ELLIS McWHORTER.

Witnesses:

J. E. McPHERRAN,
H. C. WARD.