D. M. Osborne,

Pitman Coupling.

No. 50,880. Patented Nov. 7, 1865.

Fig. 1.

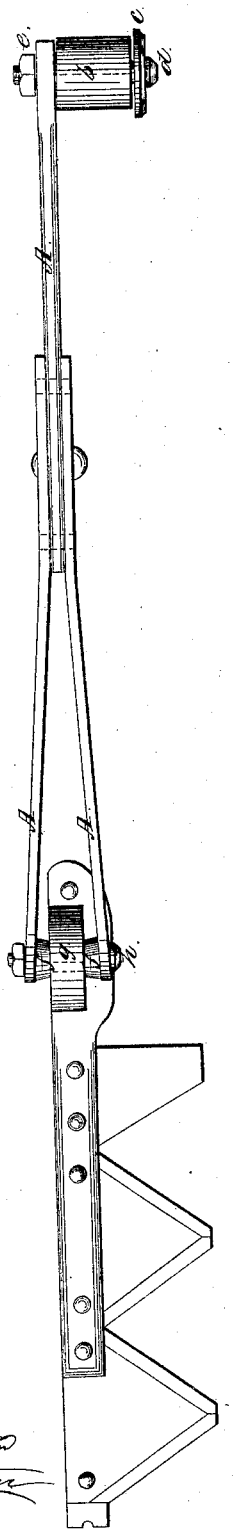


Fig. 3.

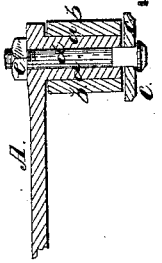


Fig. 5.

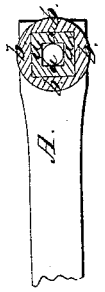


Fig. 2.

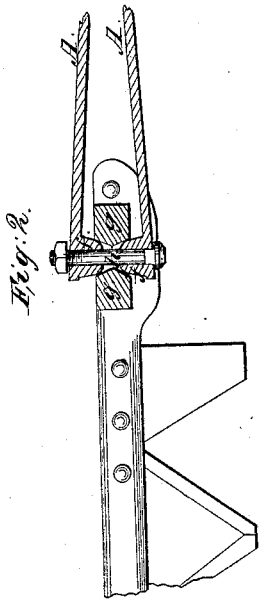
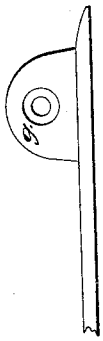


Fig. 4.



Witnesses:

A. W. Hilbrand

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Inventor:

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By atty. A. B. Stoughton

UNITED STATES PATENT OFFICE.

DAVID M. OSBORNE, OF AUBURN, NEW YORK, ASSIGNOR TO HIMSELF AND WM. A. KIRBY, OF SAME PLACE.

IMPROVEMENT IN PITMAN-CONNECTIONS FOR HARVESTERS.

Specification forming part of Letters Patent No. **50,880**, dated November 7, 1865.

To all whom it may concern:

Be it known that I, DAVID M. OSBORNE, of Auburn, in the county of Cayuga and State of New York, have invented certain new and useful Improvements in Pitman-Connections for Harvesting-Machines; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 represents a pitman with its means of connection to the crank or crank-wheel at one of its ends, and its means of connection at the opposite end to the cutters shown. Fig. 2 represents a horizontal section through the device for connecting and adjusting the pitman to the cutters. Fig. 3 represents a section through the wrist at the crank-end connection of the pitman. Fig. 4 represents an elevation of the lug on the cutter-bar, to which the pitman is attached. Fig. 5 represents a transverse section through the wrist, showing the form of the wrist-pin and boss or sleeve over it.

Similar letters of reference, where they occur in the separate figures, denote like parts in all of them.

The speed with which the pitman of a harvesting-machine moves causes much and rapid wearing away of its attachments to the crank or crank-wheel, as well as to the cutter, and following this wearing away comes much of the clatter and noise made by the machines while in operation.

The object and purpose of my invention is to prevent as much as possible this wearing away and consequent noise, and to compensate or provide against so much of the evil as cannot be evaded or avoided; and the nature of my invention consists in using a removable and replacable boss or sleeve upon the wrist-pin of the pitman, which, from its greater bearing-surface, is less liable to wear, but which, when too much worn, can be removed and replaced by another, and in a moment's time, thus saving the trouble and expense of a new wrist-pin, as is the case now when this wearing takes place.

To enable others skilled in the art to make and use my invention, I will proceed to describe the same with reference to the drawings.

A represents a pitman, one end of which is furnished with a pin, *a*, which may be square, and over which a sleeve or boss, *b*, is slipped, said boss having an opening through it of a square or corresponding form as that of the pin, and so that it shall not turn on the pin. When the boss or sleeve is in place a washer, *c*, may be placed over the end, and a bolt, *d*, passed through the whole, with a nut, *e*, to hold them in place. By this means more wearing-surface is exposed on the wrist, and it requires a greater amount of use to wear it down, and when worn down the bolt need only be backed out, the boss or sleeve removed, and a new one put in its place, and the bolt again run up and fastened; whereas, when an ordinary wrist-pin wears out, the machine must go to a shop, and it requires a mechanic to put in a new one.

The sleeves or bosses may be chilled or made of steel, if found necessary to make them harder than ordinary iron, cast or wrought.

Having thus fully described my invention, I would state that I am aware that a removable sleeve has been held to a crank-shaft or pitman by a screw-bolt alone. This I do not claim; but

What I do claim is—

A wrist-pin composed, first, of a hollow square or sided shank, wrought on or securely fastened to the pitman or other connecting bar or rod; second, a sleeve having a cylindrical perimeter and a square or sided opening to fit over the shank; and, finally, a through-bolt to hold the sleeve to the shank, all arranged, constructed, and operating in the manner and for the purpose described.

Witnesses: D. M. OSBORNE.

DAVID WRIGHT,
ROLLIN TRACY.