H. L. Wanzer.

Harvester Pitman.

No. 96,643. Patented Nov. 9, 1869.

Fig 1.

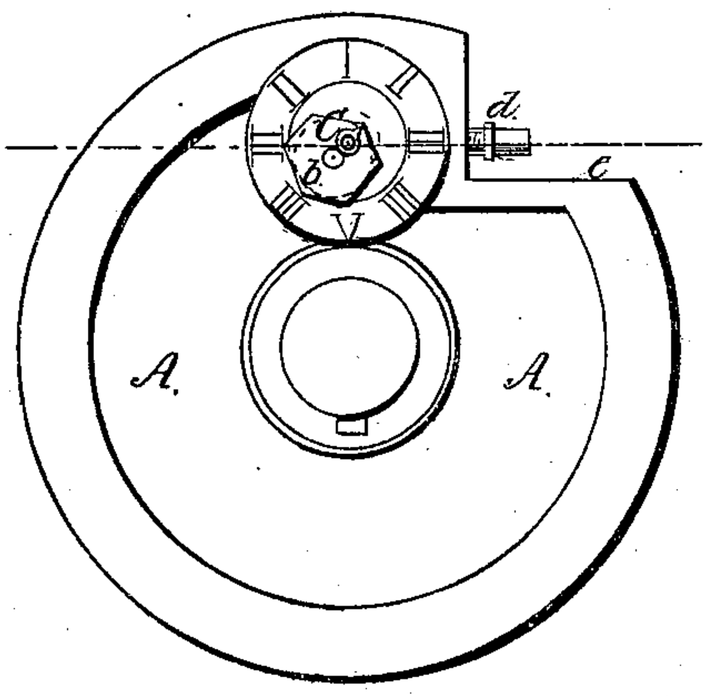
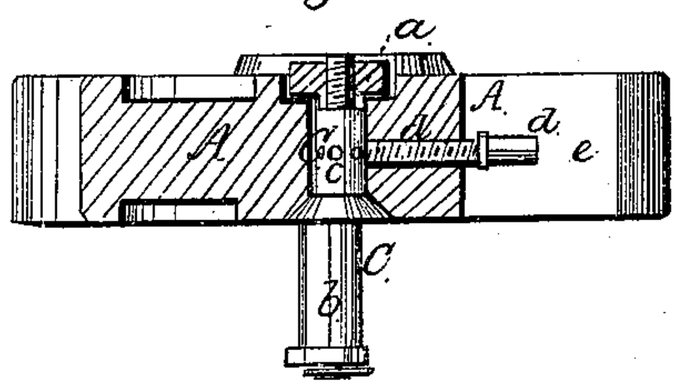


Fig. 2.



Witnesses:
Geo H Maker
Inv. H. Brooks

Inventor:
H. L. Wanzer
Per Munn & Co
Attorneys

United States Patent Office.

HIRAM L. WANZER, OF LANESVILLE, CONNECTICUT.

Letters Patent No. 96,643, *dated November* 9, 1869.

IMPROVEMENT IN CRANKS FOR HARVESTERS.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, HIRAM L. WANZER, of Lanesville, in the county of Litchfield, and State of Connecticut, have invented a new and improved Crank for Harvesters; 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 make and use the same, reference being had to the accompanying drawing, forming part of this specification,

The object of this invention is to furnish means for varying the velocity of the cutters of harvesters, to accommodate the machine to the nature of the work and speed of the team, and also to compensate for the wearing away of the knives by grinding.

The invention relates to certain improvements on the crank-pin connection described in the specification of Letters Patent granted to the petitioner, July 2, 1867, and reissued November 12, 1867.

By means of the present invention, the device referred to can be more easily constructed, is less liable to get out of order, and can be more readily applied to machines already in use.

The crank-pin can be adjusted to different strokes without removing the pitman.

In the annexed drawing, my invention is illustrated—

Figure 1 being a face view of the pitman-wheel.

Figure 2, a horizontal section of the same, showing the crank-pin.

Similar letters of reference indicate corresponding parts.

The crank or pitman-wheel A is hung and operated in the usual manner. It is connected with the pitman by a pin, C, which is shown more particularly in fig. 2.

That portion of the pin C which passes through the wheel is of peculiar form, it being conical at the outer end, cylindrical in the middle, and provided with a screw-thread at the inner end. It is so placed in the crank or wheel A, that by drawing the nut *a*, which screws over the inner end of the pin, the pin may be held secure in the wheel.

The outer end of the pin C is of smaller diameter than that part which is in the crank, and is set eccentrically upon the same, as shown in fig. 2.

The pitman is pivoted to the eccentric portion of the pin.

The cylindrical portion *c* of that part of the pin which passes through the crank is provided with holes or indentations, of a conical or other suitable shape, so that, by means of a set-screw, *d*, fitting with the end into one of said holes or indentations, the pin may be secured in any suitable position.

The extremity of the eccentric projecting part of the pin C is made polygonal, so that by applying a wrench, the pin may be turned to any desired position.

In the edge of the wheel A is cut a notch, *e*, of such form that the head of the said screw will fit into the same. In that position, the head of the screw cannot become entangled by the cut grass while the machine is in motion.

The nut *a* being countersunk in the wheel, part of its thickness, also prevents its catching the cut grass, and the wheel can be hung nearer the bearing than it could otherwise.

The peculiar form of the pin and wheel serves to increase the strength without increasing the weight of the crank.

Upon the end of the eccentric projecting part of the pin is arranged a mark or an index, which serves, in connection with marks upon the wheel, to show the distance of the eccentric projection from the centre of the wheel.

To turn the pin, it is only necessary to loosen the said screw *d*, when, by applying a wrench to the polygonal outer part of the pin, it may be turned to any position.

It will be seen, that by the use of the said screw *d*, the pin may be adjusted without loosening the same from the wheel, and the nut *a* can therefore be made fast, and the pin thus prevented from becoming loose by accident.

Having thus described my invention,

What I claim as new, and desire to secure by Letters Patent, is—

1. In combination with a crank-pin, C, which has an eccentric projection, the set-screw *d*, arranged to lock the pin in any desired position, substantially as herein shown and described.

2. The pitman-wheel A of a harvester, when notched for receiving the set-screw *d*, substantially as herein shown and described.

HIRAM L. WANZER.

Witnesses:

ORRIN HAWLEY,

ARTHUR E. KNOWLES.