

C. Wheeler, Jr.

Pitman-Connection for Harvester.

N^o 74463

Patented Feb. 11, 1868.

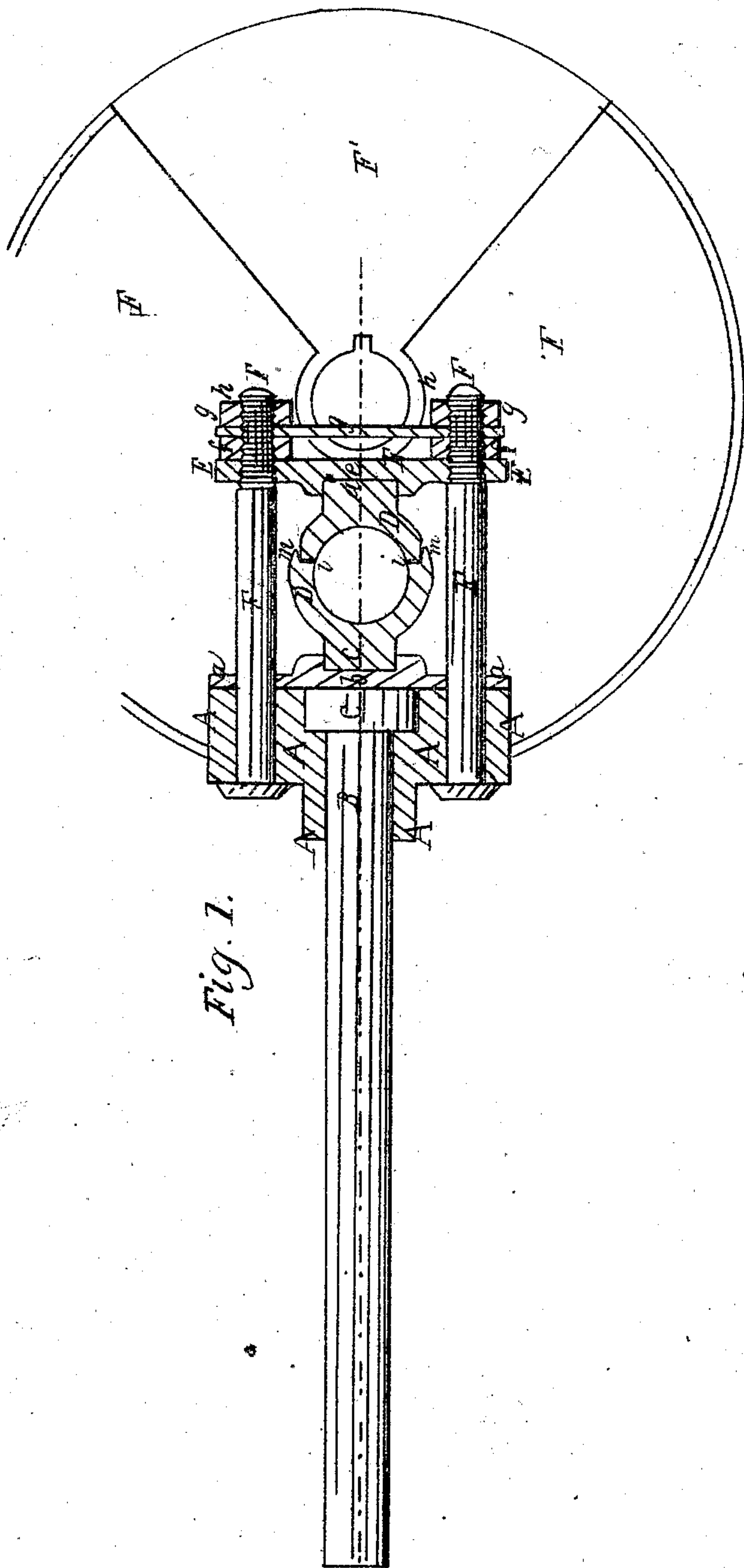


Fig. 1.

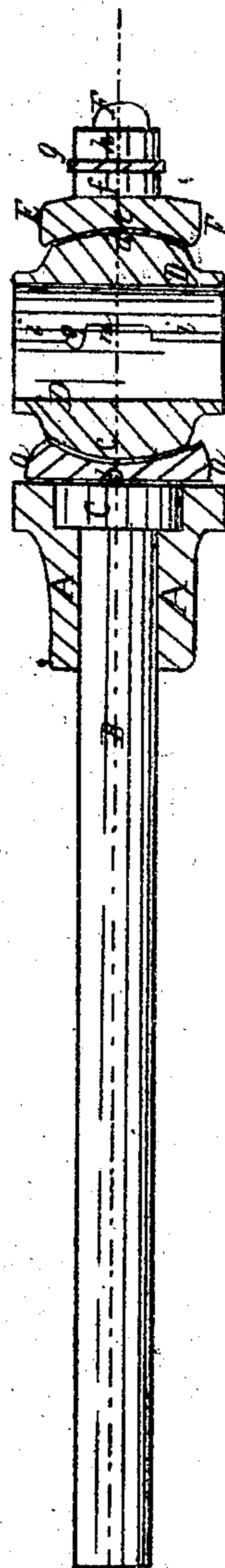


Fig. 2.

Witnesses

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CYRENUS WHEELER, JR., OF AUBURN, NEW YORK.

IMPROVEMENT IN PITMAN-CONNECTIONS FOR HARVESTERS.

Specification forming part of Letters Patent No. 74,463, dated February 11, 1868.

To all whom it may concern:

Be it known that I, CYRENUS WHEELER, Jr., of Auburn, in the county of Cayuga and State of New York, have invented certain new and useful Improvements in Pitman or Crank Rod Connections for Harvesting-Machines and other purposes; 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 vertical, and Fig. 2 a horizontal, section through the wrist-connection, and showing its capabilities of yielding or accommodating itself to the changing positions of the crank-wrist and the instrument driven by it through a connecting-rod.

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

My invention relates to the manner of combining the wrist-box and the pitman with the pitman-head, so that each may have motions with, as well as independent of, said head, by which means the pitman may accommodate itself to the many changing positions of a harvesting-machine cutting apparatus without binding or cramping.

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.

The portion A of the wrist-box frame may be cast, and has an opening through it for the pitman or connecting rod B, and a recess for catching and holding the head C of said pitman or connecting rod, and so arranged that said piece A can freely turn on and around said rod as a center. Upon the end of the piece or portion A there is a plate, *a*, which prevents the pitman B from moving endwise through it; and there is also, upon the opposite face of this plate, a curved recess, *b*, against which a curved projection, *c*, on the wrist or crank box D rests and can move.

Diametrically opposite the projection *c* on the wrist-box there is a similar curved projection, *d*, that fits into and moves upon a curved recess, *e*, in a plate or head, E, and the two pieces or heads A E are held together by the bolts F F and nuts *f f*, and hold between them the bearing-plate *a* and the wrist-box D. Over the ends of the screw-bolts is placed a washer-plate, *g*, and upon this plate are run down the jam-nuts *h h*, by which and the other nuts, *f f*, the several parts may be adjusted and held together. The crank-box D is made in two parts, as shown at *i*, and has flanges *m* lapping over the joint, and an oil-hole, *o*.

This whole contrivance may be termed a "crank-head," which has three movements—viz., one with the wrist or crank on which it is placed, a second motion on the curved surfaces *b c* and *d e*, and a third one around the pitman or connecting rod, and thus it conforms to all the twisting or cramping or binding motions that may occur between a cutting apparatus which is raised, lowered, and turned at one end of the connecting-rod, and a crank-wrist at the other end thereof.

F is the crank-wheel, to which the crank head or frame may be connected, the portion F' being solid to steady its motion, the other portion cast hollow. The pitman-rod, having the crank head or frame connected at one of its ends, is pivoted by its other end to a malleable cast-iron head that is fastened to the knife-bar or knives.

Having thus fully described my invention, what I claim is—

In combination with a crank or pitman head that can turn on or around the pitman, a wrist-box that turns in said head by means of its curved surfaces *c c* moving against the concave bearings in the plates *b e*, substantially as and for the purpose herein described.

C. WHEELER, JR.

Witnesses:

D. O. BAKER,
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