S. SHIFLETT.

Pitman-Connection.

No. 220,878. Patented Oct. 21, 1879.

Fig. 1

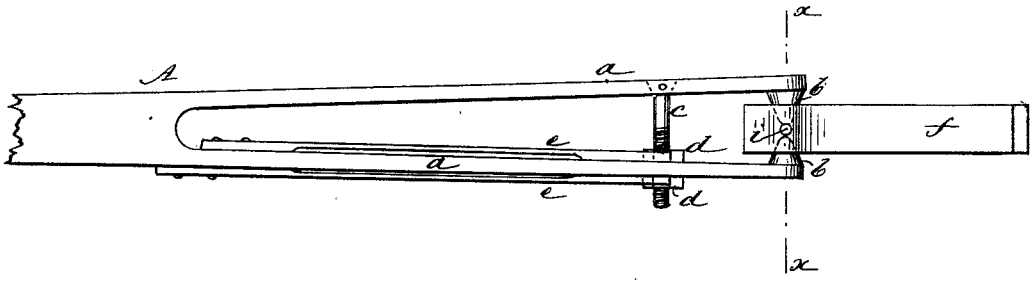


Fig. 2

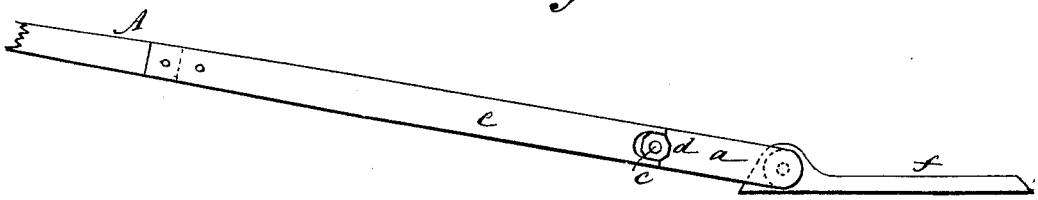
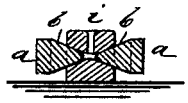


Fig. 3



WITNESSES:

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UNITED STATES PATENT OFFICE.

SAMUEL SHIFLETT, OF NORTH RIVER, VIRGINIA.

IMPROVEMENT IN PITMAN-CONNECTIONS.

Specification forming part of Letters Patent No. **220,878**, dated October 21, 1879; application filed April 7, 1879.

To all whom it may concern:

Be it known that I, SAMUEL SHIFLETT, of North River, in the county of Rockingham and State of Virginia, have invented a new and Improved Pitman-Connection, of which the following is a specification.

My improved pitman-connection is especially adapted for use in connection with machinery for harvesting; where the reciprocation is rapid and frequent oiling is required, and it is also applicable to all kinds of machinery where a pitman or connecting-rod is made use of.

The invention consists in a pitman having a forked or bifurcated end, and formed with conical lugs or projections upon the inner sides of the forked ends, which lugs enter corresponding recesses in the cutter-head or other piece, to connect the pitman therewith. The forked ends are retained in place by a transverse screw and set-nuts.

In the accompanying drawings, Figure 1 is a top view of a pitman constructed in accordance with my invention. Fig. 2 is a side view. Fig. 3 is a cross-section on line *x x* of Fig. 1.

Similar letters of reference indicate corresponding parts.

The pitman A is formed with forked ends *a a*, adapted for being sprung apart to a limited extent. At the outer end and on the inner side each forked end *a* is formed with a pointed or conical lug or projection, *b*.

The position of ends *a* is adjustable by means of a screw, *c*, that is attached to one end *a*, and extends through the other end *a*, which latter is clamped by set-nuts *d d* at opposite sides. The nuts *d* are prevented from turning by spring-pawls *e e*, attached upon the pitman, and engaging with nuts *d*. The nuts are, preferably, octagon, to allow of accurate adjustment and retention by the pawls.

The piece *f* represents the cutter-head of a harvester. It is formed with a cross-aperture, flaring at both ends, to correspond with the lugs *b*, which enter the aperture, as shown, thereby making a firm-jointed connection between the pitman and cutter-head. This connection can be accurately adjusted by the screw *c* and nuts *d*, and wear readily, compensated by tightening the forked ends of the pitman.

A small oil-hole, *i*, in bar *f* communicates with the aperture in *f* and points of lugs *b*, and oil will be retained upon the bearing-surfaces longer than in ordinary connections.

The form of pitman-connection may be used to advantage on all kinds of machinery wherein power is communicated by a rod from a crank to convert circular to reciprocating motion, or vice versa—as, for instance, reapers and mowers, engines, sewing-machines, &c.

It is evident that the position of the conical lugs and recesses may be reversed, the lugs placed on the piece *f* and sockets on the forks *a*. In some instances, instead of being conical or tapering to a point, the lugs *b* may be of rounded or spherical form.

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

1. The combination, with a pitman having two lugs, *b b*, on spring-arms *a*, of the cutter-head *f*, having a hole, *i*, and subjacent oil-chamber between two opposite cavities corresponding to said lugs, as and for the purpose specified.

2. The polygonal nuts *d d* on bolt *c*, combined with spring-bars *e*, having forked ends that fit over said nuts, as shown in Fig. 2 of the drawings, and for the purpose described.

SAMUEL SHIFLETT.

Witnesses:

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HENRY W. ROLLER.