B. E. CARPENTER

PITMAN-ROD.

No. 189,187. Patented April 3, 1877.

Fig. 1.

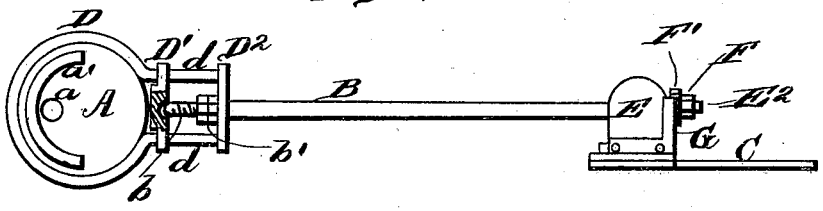

Fig. 2.

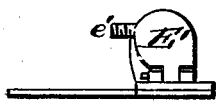

Fig. 3.

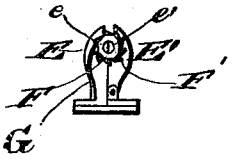

Fig. 4.

Fig. 5.

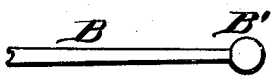

Fig. 6.

WITNESSES

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IMPROVEMENT IN PITMAN-RODS.

Specification forming part of Letters Patent No. **189,187**, dated April 3, 1877; application filed February 24, 1877.

To all whom it may concern:

Be it known that I, BURR E. CARPENTER, of Plain City, in the county of Madison and State of Ohio, have invented a new and valuable Improvement in Pitman-Rods; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a representation of a side elevation, part sectional; and Figs. 2, 3, 4, 5, and 6 are detail views thereof.

This invention relates to pitman-rods for operating the cutter-bars of harvesters; and it consists in certain peculiar devices for connecting the same to a crank-wheel at one end and a cutter-bar at the other, substantially as hereinafter set forth and claimed.

In the accompanying drawings, A designates the small crank-wheel of a mower or harvester, which operates pitman-rod B and cutter-bar C. Said crank-wheel is provided with an eccentric perforation, *a*, for the attachment of the crank or wrist pin, and also with a segmental bar, a^1, on the side opposite to said crank, for counterbalancing the latter. Said wheel A is peripherally grooved at a^2, as shown in detail in Flg. 6.

D designates a clamping-strap, which surrounds said wheel and sets into groove a^2. Said strap is not completed on the side toward pitman B, and its two ends *d d* are there straightened, so as to be parallel to said rod. These ends are passed through movable yoke or slide D^1 and into fixed yoke D^2. The rear end of pitman B passes through a perforation in fixed yoke D^2 and sets into a recess in the front of movable yoke or slide D^1. Said rear end is screw-threaded at *b*, to receive clamping-nuts *b'*. By means of said nuts the said rear end *b* of pitman B is drawn back against sliding yoke D^1, and collar D is thus tightened on wheel A.

The outer end of said pitman is provided with a ball, B', (shown in Fig. 5.) which sets into a suitable socket formed by the inside of a sectional box. (Shown in Fig. 4.) This box consists of a fixed part, E, and a hinged part, E^1. These parts are provided with complementary extensions *e e'*, which together form a screw-threaded stud, E^2. F designates a nut, which screws upon said stud E^2, to clamp said sections E and E^1 together around said ball B'. This nut is provided with a surrounding ratchet or toothed collar, F', which is engaged by a retaining-spring, G, whereby said nut is prevented from turning so as to slip off from stud E^2, and allow said sections to separate. Said spring is secured to fixed section E, and both sections E E^1, are attached to cntter-bar C. When clamped together, as stated, said sections form an approximately globular socket, which is slotted on the top and toward pitman B, so as to allow cutter-bar C to tilt up and down independently of said pitman, thus conforming to the inequalities of the ground. This method of attachment forms a very convenient universal joint. I do not, however, claim an universal joint applied to harvester pitman-rods and cutter-bars, being aware that such application is not broadly new.

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

1. The combination of circumferentially-grooved wheel A with collar D, having ends *d d*, yokes D^1 D^2, pitman B, and nuts *b'*, substantially as and for the purpose set forth.

2. Wheel A, provided with crank-hole *a*, counterbalance a^1, and circumferential groove a^2, in combination with a pitman-rod and collar connection, substantially as and for the purpose set sorth.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

BURR E. CARPENTER.

Witnesses:

WESLEY CARPENTER,

ANDREW CARY.