

Z. McGINNIS.
Rod-Coupling for Oil-Well.

No. 213,919.

Patented April 1, 1879.

Fig. 1

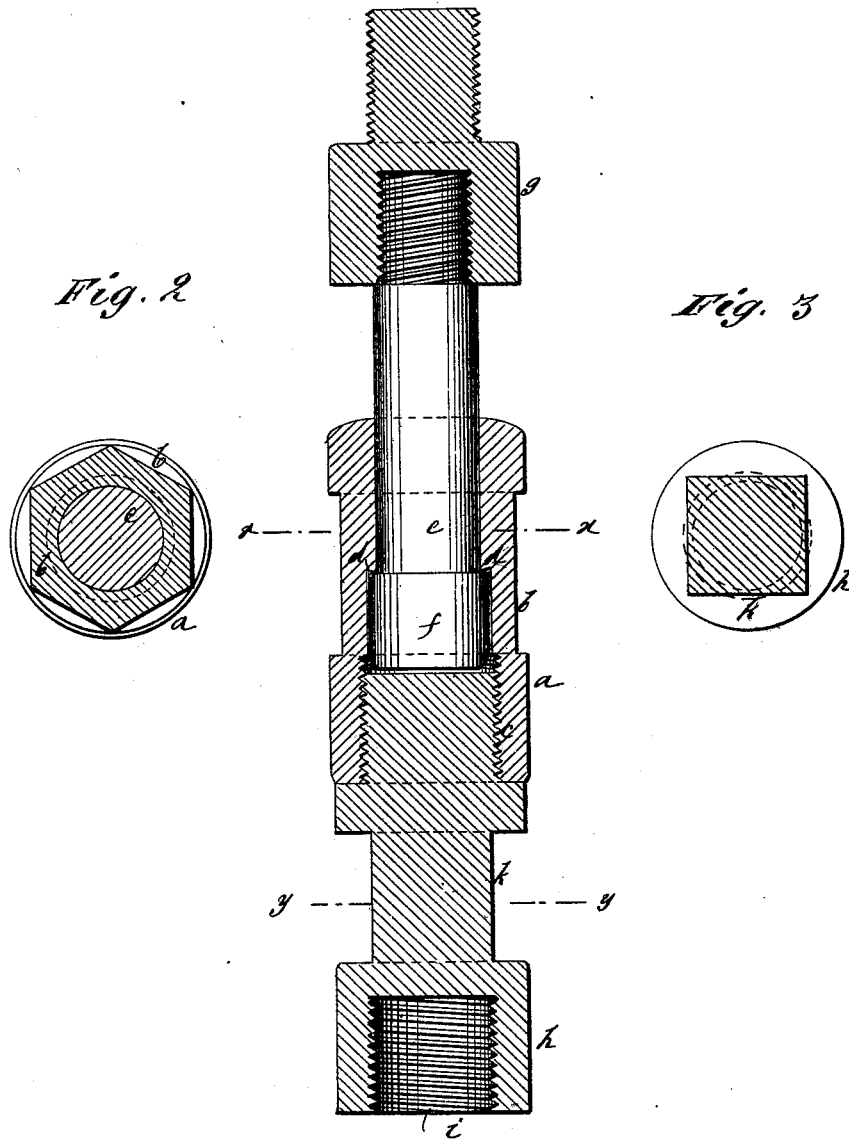


Fig. 2

Fig. 3

WITNESSES:

C. Neveu
C. Sedgwick

INVENTOR:

Z. McGinnis
BY *Munn*

ATTORNEYS.

UNITED STATES PATENT OFFICE.

ZENES MCGINNIS, OF PETROLIA, PENNSYLVANIA.

IMPROVEMENT IN ROD-COUPPLINGS FOR OIL-WELLS.

Specification forming part of Letters Patent No. 213,919, dated April 1, 1879; application filed September 20, 1878.

To all whom it may concern:

Be it known that I, ZENES MCGINNIS, of Petrolia, in the county of Butler and State of Pennsylvania, have invented a new and Improved Rod-Coupling for Oil-Wells, of which the following is a specification:

The object of my invention is to provide a means for coupling and uncoupling the sucker-rods used in oil-wells from the walking-beam of the pump, so that the operation may be performed without danger and with less labor than is now required.

Heretofore the connections have been made in such a way that it was necessary for a workman to go up on the walking-beam to disconnect the sucker-rods when it was desired to draw them out.

The invention will first be described in connection with the drawings, and then pointed out in the claim.

In the accompanying drawings, Figure 1 is a longitudinal section of my coupling device. Fig. 2 is a cross-section at the line *x x*, Fig. 1; and Fig. 3 is a cross-section at the line *y y*, Fig. 1.

Similar letters of reference indicate corresponding parts.

a is a tube or sleeve of cylindrical shape, and with its exterior surface at *b* formed six-sided, so that a wrench may be applied to the sleeve for turning it. The tube *a* has a round hole through its center lengthwise, which hole is enlarged at one end, and provided with an interior thread, as seen at *c*. The hole is also enlarged for a short distance midway of the length of the tube, so as to form a shoulder, *d*.

e is a short rod or spindle having a head, *f*, that takes against the shoulder *d*, and retains the rod *e* in the tube *a*, as shown, but permits the tube and rod to turn independently.

The outer and upper end of rod *e* is provided

with a screw-thread to receive the coupling-nut *g*, that connects to the rod that is attached to the walking-beam of the pump. (Not shown.)

h is a coupling-nut, connected to the sleeve *a* by the thread *c*, and provided with a screw-threaded recess, *i*, at its opposite end for attachment to the sucker-rod, (not shown,) that enters the well. The nut *h* is squared at *k* for connection of the elevating apparatus to draw the rod out of the well.

The parts being coupled together as described, when it becomes necessary to disconnect the sucker-rod from the walking-beam a wrench will be applied to the tube *a* to unscrew the tube from the nut *h*. The construction of the parts permits this to be done, as the tube will turn upon the rod *e*. The parts being disconnected, the parts remaining connected to the beam may be swung out of the way, so as not to interfere with the subsequent operations. The recoupling may be accomplished with equal facility.

The coupling above described saves a considerable amount of time and labor, and renders unnecessary the perilous job of ascending the walking-beam.

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

The sucker-rod of an oil-well pump, connected with a rod attached to the walking-beam by a polygonal sleeve, *a*, having thread *c* and shoulder *d*, an end-threaded rod having head *f*, a nut, *g*, having threaded extension, and a nut, *h*, having screw at opposite end, all substantially as shown and described.

ZENES MCGINNIS.

Witnesses:

DAVID CRAWFORD,
S. F. ALTIE.