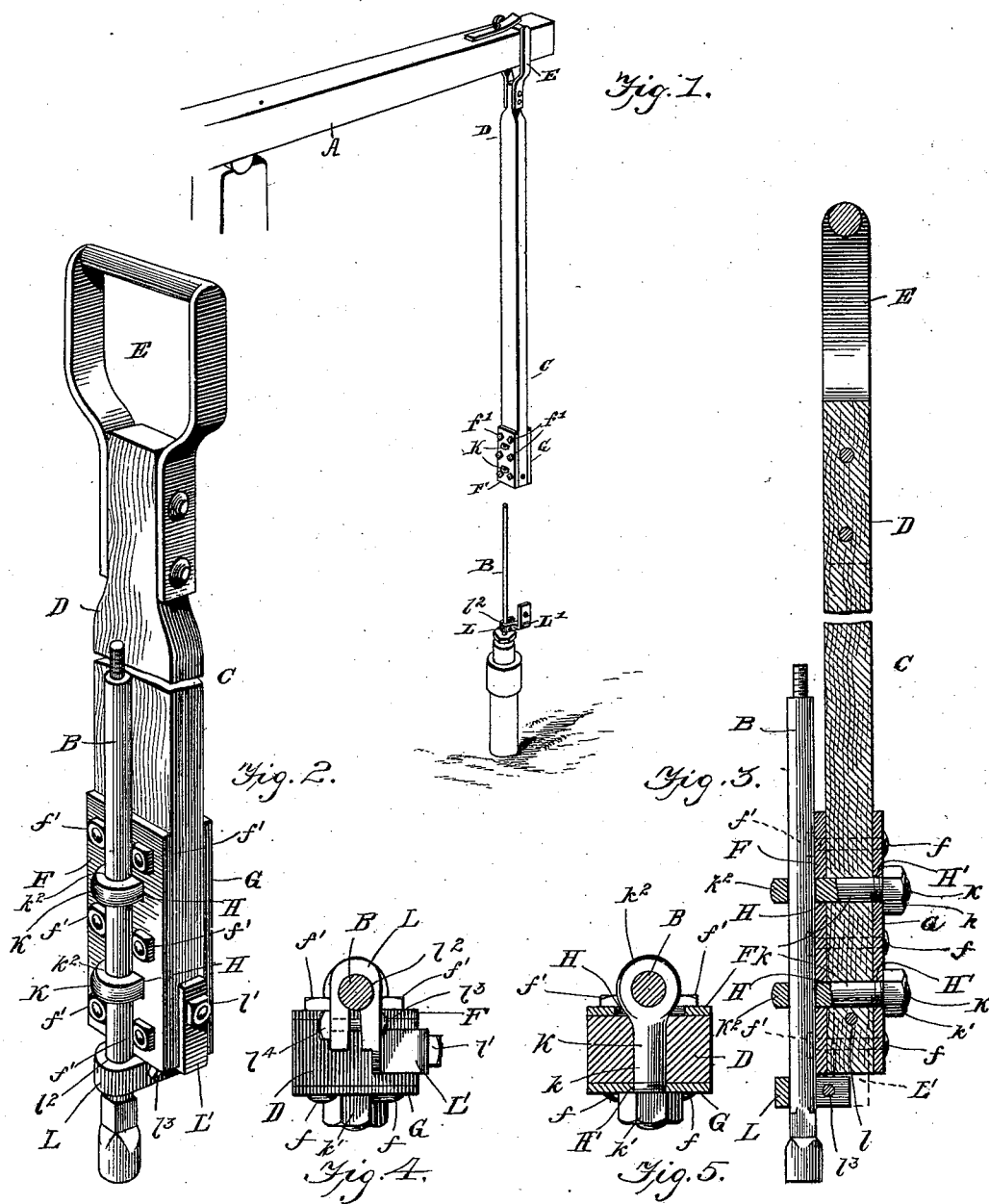


(No Model.)

R. M. FREY.
PITMAN FOR OIL PUMPS.

No. 563,473.

Patented July 7, 1896.



WITNESSES:

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REUBEN M. FREY, OF BAIRDSTOWN, OHIO.

PITMAN FOR OIL-PUMPS.

SPECIFICATION forming part of Letters Patent No. 563,473, dated July 7, 1896.

Application filed April 7, 1896. Serial No. 586,602. (No model.)

To all whom it may concern:

Be it known that I, REUBEN M. FREY, residing at Bairdstown, in the county of Wood and State of Ohio, have invented a new and Improved Pitman for Oil-Pumps, of which the following is a specification.

This invention relates generally to oil-well machinery, and particularly to an improved construction of pitman for connecting the front end of a walking-beam with the polish-rod.

The principal object of the invention is to provide a cheap and simple construction of pitman and connecting devices, whereby the throw of the pump-piston can be regulated as needed.

Another object of the invention is to provide an improved clamp for holding the polish-rod in the tubing during the attachment of the pitman to said rod.

Another object is to provide suitable connecting devices, whereby the polish-rod can be quickly and easily fastened to or unfastened from the pitman for the purpose of adjustment.

With these various objects in view my invention consists in the peculiar construction of the several parts, and in their novel combination or arrangement, all of which will be fully described hereinafter, and pointed out in the claims.

In the drawings forming a part of this specification, Figure 1 is a view showing the invention in use. Fig. 2 is a detail perspective view. Fig. 3 is a vertical longitudinal section, partly in side elevation. Fig. 4 is a bottom end view, and Fig. 5 a section on the line 5 5 of Fig. 3.

In applying my invention I connect it with a walking-beam A and polish-rod B, both of which are of the usual or any approved construction.

The pitman C, which connects said beam and rod, forms the essential feature of my invention, together with the connecting devices for uniting the pitman and rod.

The pitman preferably consists of a piece of wood D, somewhat reduced at its upper end, and to which is attached a metal stirrup E, which is secured in the split end of the walking-beam.

The lower end of the piece D is faced on

both sides with metal plates F and G, said plates being held in position by means of bolts *f*, passed through from the rear, and carrying nuts *f'* upon the forward ends, said bolts and nuts being preferably arranged in pairs, as shown, three pairs being illustrated as in use in the present instance.

The front plate F is slotted horizontally, as shown at H, and the rear plate has openings H', and passing through the said plates and piece D are the eyebolts K, the shank *k* passing through the parts and receiving a nut *k'* upon the rear, while the eyes *k*² rest within the slots H, as most clearly shown.

Passing through the eyes *k*² is the upper end of the polish-rod B, and by tightening the nuts and bolts the rod is bound tightly against the face-plate F, and by referring to the drawings it will be seen that the rod rests snugly between three pairs of nuts.

By loosening the nuts the eyebolts become loose, and the pitman can be adjusted or removed, as desired, and in order to hold the rod in place in the well-tubing I provide a clamp, which is normally attached to the lower end of the pitman, and comprises a bow or U-shaped member L, through which the rod passes, and an angular arm member L', by means of which the clamp is attached to the pitman, said arm being secured to the side of pitman by a bolt *l* and nut *l'*, and on account of its angular shape holds the bow or U-shaped member L beneath the end of pitman, and the inner sides of the member L are curved or cut out, as shown at *l*², and in order to bind the members against the rod C, I employ a draw-bolt *l*³ and nut *l*⁴, as most clearly shown in Fig. 5.

In operation the clamp serves to hold the rod in its proper position in the tubing, while said rod and pitman are being adjusted, and at this time the clamp is detached from the pitman and rests upon the top of stuffing-box, as shown in Fig. 1, thereby preventing the polish-rod passing too far into the tubing. The pitman can then be adjusted thereon as desired.

The long bearing of the rod upon the metal-faced portion of the pitman prevents any possible lost motion between such parts.

It will thus be seen that I provide a pitman which can be quickly and easily con-

nected with and disconnected from the polish-rod, one in which said rod can be quickly and easily adjusted and refastened, and one in which the rod will be securely held in the
5 tubing during such adjustment.

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

1. An improved pitman having a stirrup
10 at one end, and a clamp at the other, said clamp comprising an arm and a bow member, the face-plates and eyebolts and nuts,

all arranged substantially as shown and described.

2. The combination with the pitman face- 15 plates and eyebolts, of the clamp having an angular arm, and a bow or U-shaped member, and the draw-bolt, all arranged substantially as shown and described.

REUBEN M. FREY.

Witnesses:

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DOW G. BAIRD.