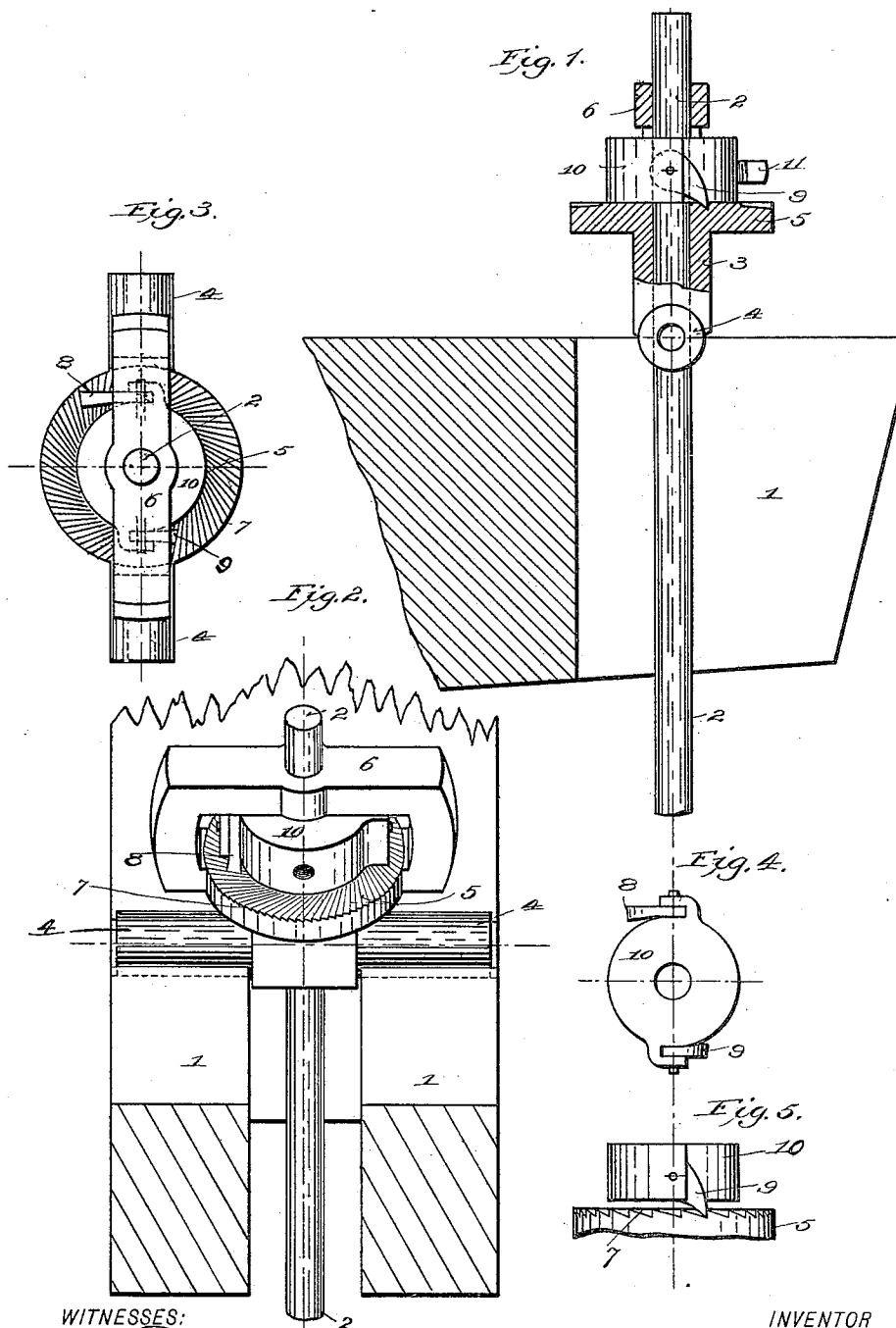


(No Model.)

D. M. EDMONDS.
ADJUSTER FOR SUCKER RODS.

No. 529,322.

Patented Nov. 13, 1894.



WITNESSES:

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DAVID M. EDMONDS, OF DERRICK CITY, PENNSYLVANIA.

ADJUSTER FOR SUCKER-RODS.

SPECIFICATION forming part of Letters Patent No. 529,322, dated November 13, 1894.

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To all whom it may concern:

Be it known that I, DAVID M. EDMONDS, a citizen of the United States, residing at Derrick City, in the county of McKean and State of Pennsylvania, have invented certain new and useful Improvements in Adjusters for Sucker-Rods, of which the following is a specification.

My invention relates to an adjuster for sucker-rods which will permit of the sucker-rod being rotated during the pumping operation, and in this manner keep the tubing free from paraffine, which forms in it and fills it up, and thus obviating the necessity of removing the long string of sucker-rods and tubing from the well in order to free them from such deposit, and my invention consists essentially of a body portion formed with a pair of trunnions which rest on the end of a walking beam, a serrated disk, and a collar having a pair of pawls which engage with the serrated disk for turning the sucker-rod, and my invention further consists of certain features of novel construction which will be hereinafter fully described and specifically pointed out in the claim.

In the accompanying drawings which form a part of this specification, Figure 1 is a side elevation of my adjuster. Fig. 2 is a top perspective view. Fig. 3 is a top view thereof. Fig. 4 is a top view of the adjustable collar, and Fig. 5 is a side view thereof.

In the said drawings: 1 represents the end of a walking beam constructed in the usual manner for carrying the adjuster.

2 represents the polished rod, the upper end of which passes through the adjuster and is secured therein, and the lower end of which is connected with the upper end of the sucker-rod.

3 represents the body of the adjuster which is formed with the trunnions 4, disk 5 and yoke 6. All of these parts have a central opening through which the rod 2 passes, the yoke 6 serving also to guide and steady the upper end thereof.

7 represents serrations or ratchet-teeth which are formed on the upper face of the disk 5, and with which the dogs or pawls 8, 9 engage.

10 represents a collar formed with a central opening through which the rod 2 passes, and which is adjustably secured therein by means of one or more set screws 11. This collar is located between the disk 5 and yoke 6 and carries the dogs or pawls 8, 9, one of which is longer than the other, and engages the serrations 7 at the outer edge of the disk, while the smaller 9 engages the serrations at the inner edge of the disk. This arrangement prevents any undue strain on any of the parts of the adjuster, which might be caused by the reaction of the sucker-rod while being turned.

I have shown the described two dogs or pawls as being carried by the collar 10, this being my preferred construction, but a single pawl may be used without departing from the spirit of my invention.

The operation of my device is as follows:—The polished rod is connected up with the sucker-rod, and the polished rod passed through the serrated disk, collar, and yoke, and it is adjusted and secured therein by means of the set screws. The adjuster is then slipped onto the walking beam through the slot formed on the end thereof.

It will be observed that the space between the disk 5, and the under side of the top of the yoke 6 is greater than the thickness of the collar 10. The object of being so constructed is, to allow an up and down movement to the collar 10, of sufficient distance as to permit the dogs 8, 9, to swing forward and engage with each serration in succession. Thus, on the up stroke of the walking beam the collar 10 rests on the disk 5, and the dogs 8, 9, engage with their respective serrations. On the down stroke of the walking beam the collar 10, bears against the under part of the top of the yoke 6, which movement of the collar 10, permits the dogs 8, 9, to swing forward and engage with the serration next in advance to the ones that were used in the previous up stroke and thus rotate the rods a distance of one serration at every stroke.

Having thus described my invention, the following is what I claim as new therein and desire to secure by Letters Patent:

In an adjuster for sucker-rods, the combi-

nation of the body formed with the trunnions, serrated disk and yoke, a central opening through the said body, disk and yoke, for the passage of the rod, and a collar formed with
5 a central opening through which the said rod passes, provided with a pair of pawls which engage the serrated disk, and suitable means

for adjustably securing the rod within said collar, substantially as and for the purpose set forth.

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Witnesses:

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