

(No Model.)

C. S. AHNER.
SUCKER ROD CLAMP OR WRENCH.

No. 492,380.

Patented Feb. 28, 1893.

Fig. 1.

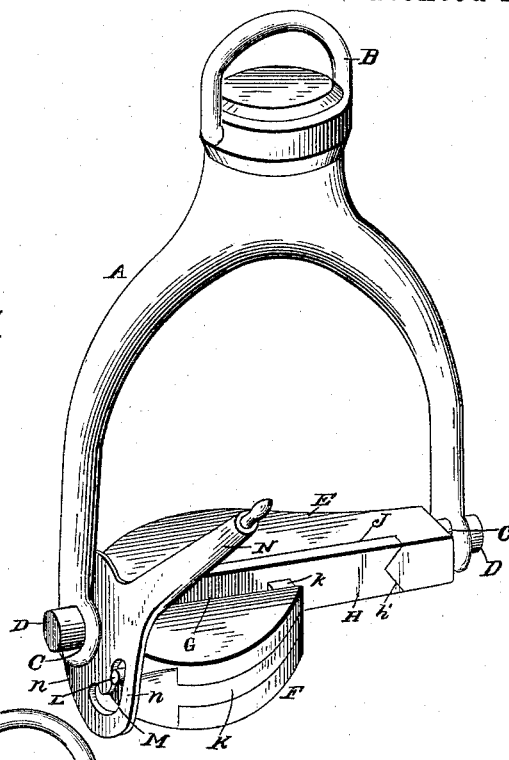


Fig. 2.

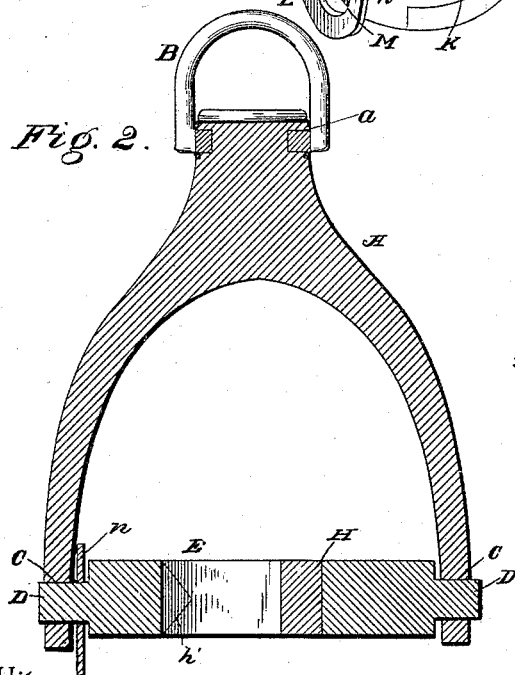


Fig. 3.

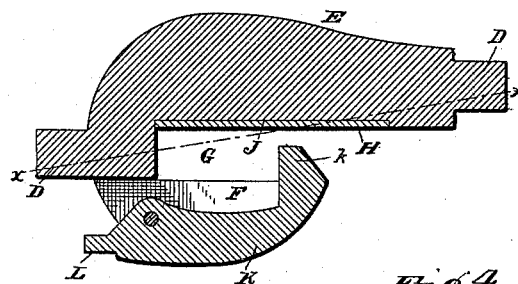
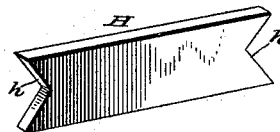


Fig. 4.



Witnesses

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UNITED STATES PATENT OFFICE.

CYRUS S. AHNER, OF HARMONY, ASSIGNOR OF ONE-FOURTH TO WILLIAM J. STEEL, OF ZELIENOPLE, PENNSYLVANIA.

SUCKER-ROD CLAMP OR WRENCH.

SPECIFICATION forming part of Letters Patent No. 492,380, dated February 28, 1893.

Application filed April 19, 1892. Serial No. 429,779. (No model.)

To all whom it may concern:

Be it known that I, CYRUS S. AHNER, a citizen of the United States, residing at Harmony, in the county of Butler and State of Pennsylvania, have invented a new and useful Sucker-Rod Clamp or Wrench, of which the following is a specification.

This invention relates to sucker rod elevators, and more particularly with relation to the clamps or wrenches for holding the rods while they are being raised or lowered in the ordinary oil wells.

To this end, it is the main object of this invention to provide an improved clamp or wrench which may be clamped upon the rod in whatever position the same may be, and which will also tightly hold the same until it is desired to release the rod, and thus avoid the many disadvantages and accidents arising from insecurely clamping the sucker rod to the lifting devices.

With these and many other objects in view which will readily appear as the nature of the invention is better understood, the same consists in the novel construction, combination and arrangement of parts hereinafter more fully described illustrated and claimed.

In the accompanying drawings;—Figure 1 is a perspective view of a sucker rod clamp or wrench constructed in accordance with this invention. Fig. 2 is a vertical sectional view of the same on the line $x-x$ of Fig. 3. Fig. 3 is a horizontal sectional view through the hook shaped clamping block. Fig. 4 is a detail in perspective of the face plates.

Referring to the accompanying drawings;—A represents the forked yoke of the clamp or wrench, provided at its upper end with an annular groove a in which is swiveled the supporting hook or eye B, which is connected with the ordinary sucker rod lifting devices, and provides means for raising or lowering the clamp or wrench and the sucker rod therewith in the well.

The lower ends of the forked yoke A are provided with bearing perforations C, which receive the journals D, projecting from the opposite ends of the clamp block E. The said clamp block E is thus pivotally mounted in the forked yoke and can swing in any posi-

tion so that it can readily receive the sucker rod, and also freely give to any swinging movement of the lifting device or the rod. The said block E is provided with a bifurcated hook F, standing off from one end of the same and forming a squared recess G, between the same and one face or the back of said block, to receive the squared end of the sucker rod, provided with the usual nut or collar which is designed to rest upon the top of the hook and the body of the clamp block.

In order to provide for different sized sucker rods and to prevent the same from turning in the receiving recess G, I employ the removable face plate H, provided with V shaped notches h , at each end taking over the projections h' , in the face or back of the clamp block, which is provided with a longitudinal recess J, designed for the reception of the face plate illustrated, or similar plates of different thickness than those shown, the same being designed for enlarging or reducing the size of the recess G according to the size of the sucker rods and thus prevent the same from turning therein.

Pivotally mounted within the bifurcated hook F, is the locking latch K, conforming to the shape of said hook and provided with a locking tongue k , which is designed to be thrown against the back face plates and thus clamp or lock the sucker rod end within the clamping recess, and effectually prevent the same from becoming displaced while the elevator is moving. The said latch K is provided at its other end with a projecting stud L, which works in the slot M in the eccentric latch lever N. The said latch lever N is eccentrically mounted upon one of the journal ends of the clamp block and terminates in a head n , in which is formed the slot previously mentioned, so that as the said lever is moved the same will cause the pivoted latch to be either thrown out of or into the receiving notch G as desired, and it will be readily seen that when the latch is in its locked position, the eccentric head of the lever holds the same locked within the receiving notch of the clamp, thus providing for a simple and effective sucker rod elevator clamp.

It is thought that the construction, and

many advantages of the herein described clamp are now apparent without further description.

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

1. In a lifting clamp or wrench, a forked yoke, a hook shaped clamp pivotally mounted in said yoke and provided with a squared recess near one end a longitudinal recess in one side thereof, and locking projections at the ends of said recess, a removable face plate seated in said recess and having end notches engaging said projections and adapted to form one side of said squared recess, a locking latch pivoted in said block and working in said squared recess and a latch lever connected to said latch, substantially as set forth.

2. In a lifting clamp or wrench, the combination with the forked yoke; of the swinging clamp block pivotally mounted at its ends in said yoke and provided with a hook at one

end forming a squared clamping recess, said hook having an outer bifurcation, face plates removably seated in one side of said squared recess, a latch pivoted in said bifurcation and provided at one end with a tongue, adapted to be projected from the inner end of the bifurcation and the hook across said squared recess to inclose the same, said latch also having a projecting stud at the other end, and an operating lever provided with a head eccentrically mounted upon one of the journals of the clamp block and having a curved slot engaging said projecting stud, substantially as set forth.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

CYRUS S. AHNER.

Witnesses:

W. LINNENBRINK,
HARRY GELBACH.