

(No Model.)

W. RICHARDS.

TOOL FOR RAISING CASING TUBES OR RODS.

No. 471,896.

Patented Mar. 29, 1892.

Fig. 1

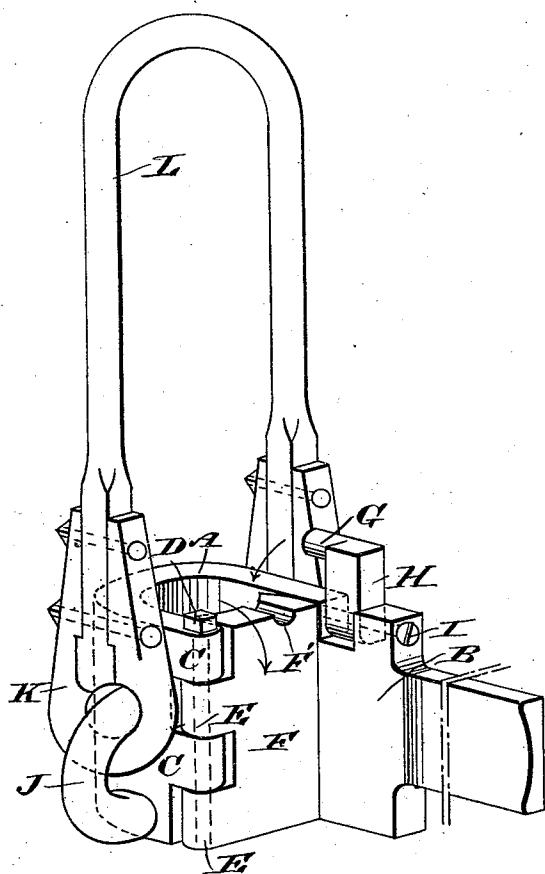


Fig. 3.

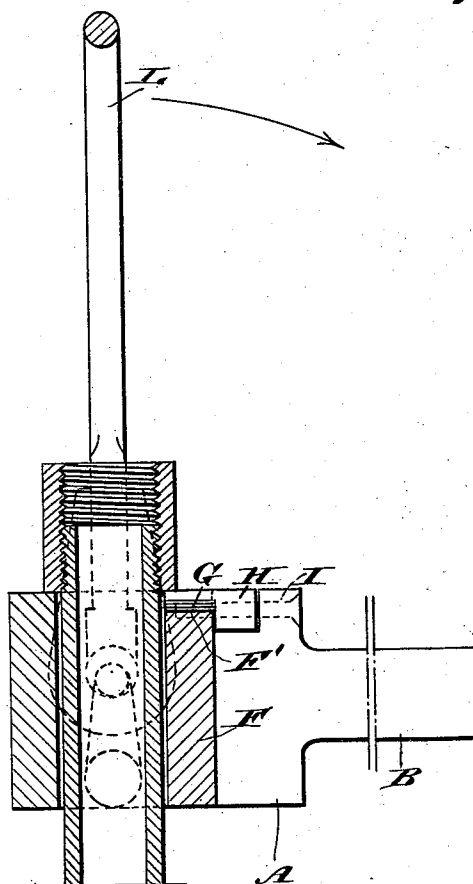
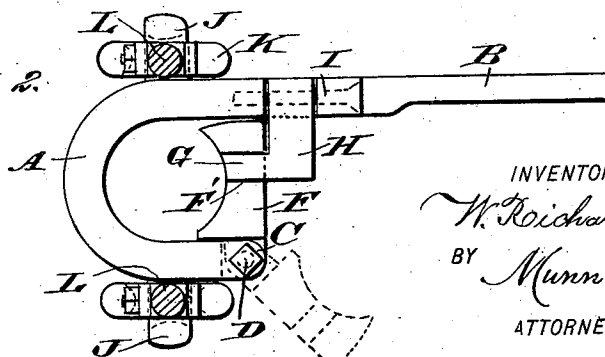


Fig. 2.



WITNESSES:

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WILLIAM RICHARDS, OF MAYBURG, PENNSYLVANIA.

TOOL FOR RAISING CASING TUBES OR RODS.

SPECIFICATION forming part of Letters Patent No. 471,896, dated March 29, 1892.

Application filed December 9, 1891. Serial No. 414,466. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM RICHARDS, of Mayburg, in the county of Forest and State of Pennsylvania, have invented a new and Improved Tool for Raising Casing Tubes or Rods, of which the following is a full, clear, and exact description.

The invention relates to devices for raising casing tubes or rods in oil or Artesian wells.

The object of the invention is to provide a new and improved tool which is simple and durable in construction, readily applied to the tube or rod, and arranged for convenient attachment to the hoisting machinery for lifting the tubes or rods out of the well.

The invention consists of certain parts and details and combinations of the same, as will be fully described hereinafter, and then pointed out in the claim.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1 is a perspective view of the improvement. Fig. 2 is a plan view of the same with the bail in sections, and Fig. 3 is a sectional side elevation of the same as applied.

The improved tool for raising casing tubes or rods is provided with a U-shaped yoke A, one end of which is provided with a handle B for conveniently putting the tool on the casing tubes or rods. On the other end of the said yoke A are formed lugs C, carrying a pivot-pin D, engaging lugs E of a gate F, adapted to close the open side of the yoke A, the inner face of the said gate F being segmental to conform to the inner circle of the yoke, according to the size of the tube or rod on which the device is applied.

On the top of the gate F is formed a longitudinally-extending recess F', adapted to be engaged by a pin G, projecting from an arm H, hung on a pivot I, secured in that end of the yoke A which carries the handle B. When the arm H is swung into an uppermost position, as shown in Fig. 1, then the gate F can be swung open to permit of applying the yoke A on the tube or rod by simply passing one side of the yoke upon the tube or rod. The gate F is then closed, the arm H is swung downward so as to lie in front of the gate,

thus preventing the same from being opened, and at the same time the pin G passes into the recess F', thus securely locking the gate F and the arm H.

On the sides of the yoke A are secured or formed the staple J, engaged by the eyes K of the bail L, the shanks of which are bolted or otherwise secured to the said eyes, as is plainly illustrated in Fig. 1. The bail L, when swung into an uppermost position, can be readily connected with the rope, chain, or other device of the hoisting-machine. In order to hoist the casing tube or rod, the tool is applied on the tube or rod in the manner above described, so that the top of the yoke A and gate F engage the under side of the coupling of the casing tubing or rod, as is plainly shown in Fig. 3. The bail L is then in an uppermost position and connected with the hoisting-rope, so that when the hoisting-machine is set in motion the tool is lifted and by its connection with the coupling of the casing tubes or rods raises the latter.

It will be seen that the tool is very simple and durable in construction, can be readily applied on the tube or rod, and its gate F securely locked in place to prevent accidental opening and consequent disconnection of the tool from the tube or rod.

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

The herein-described tool, consisting in the horizontal U-shaped yoke A, one leg of which is extended and forms the handle B, the gate F, hinged to the forward edge of the short member of the yoke to swing horizontally and close the yoke, a transverse notch F' across the upper edge of the gate, a vertically-swinging arm H, pivoted to the upper edge of the yoke adjacent to and in front of the swinging edge of the gate to swing down in front thereof and provided on its inner side with a pin I to enter the recess F', ears J J on the opposite side of the yoke, and the bail L, connected at its lower ends with said ears, substantially as set forth.

WILLIAM RICHARDS.

Witnesses:

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