J. A. MORRISON.

Combined Elevator and Clamp for Sucker-Rods of Oil-Wells.

No. 201,191. Patented March 12, 1878.

Fig. 1

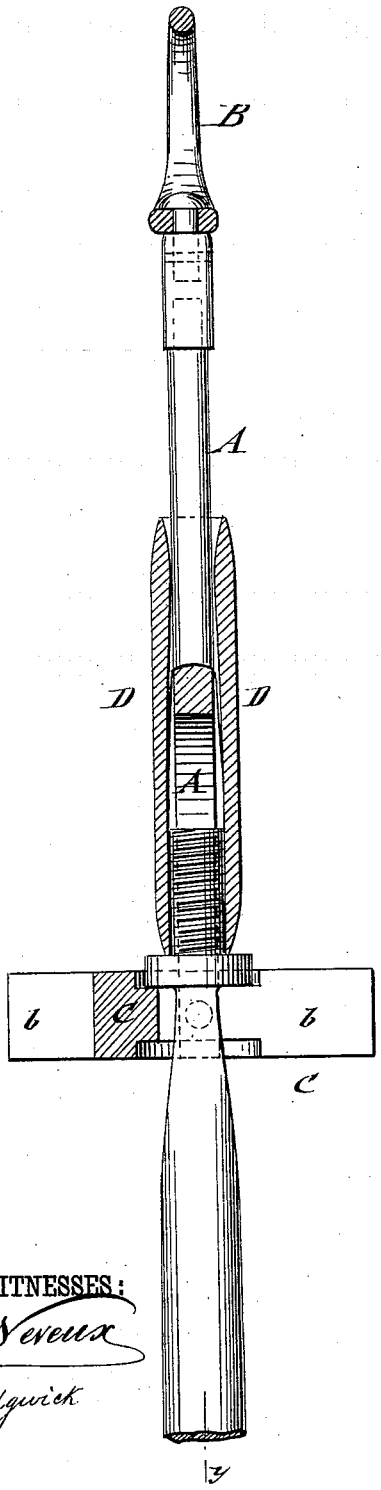
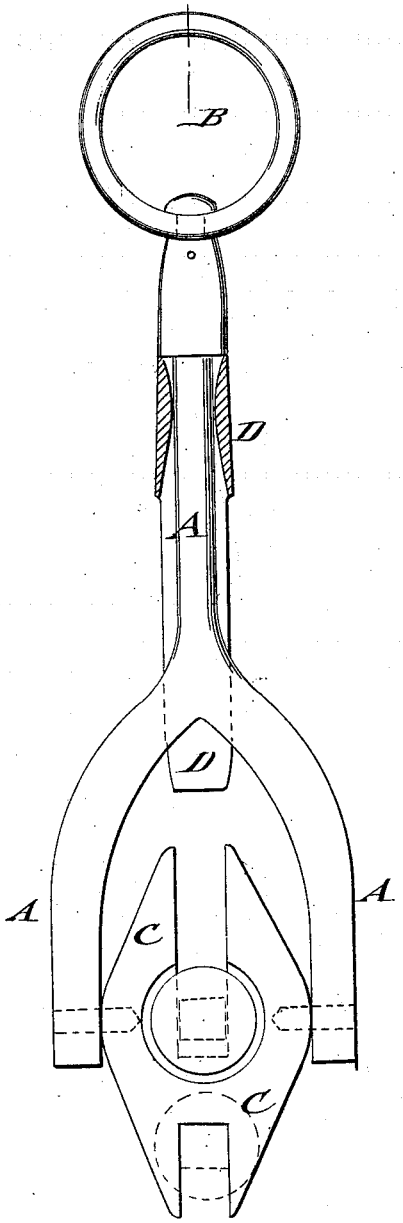


Fig. 2



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UNITED STATES PATENT OFFICE.

JAMES A. MORRISON, OF KARNS CITY, PENNSYLVANIA.

IMPROVEMENT IN COMBINED ELEVATOR AND CLAMP FOR SUCKER-RODS OF OIL-WELLS.

Specification forming part of Letters Patent No. **201,191**, dated March 12, 1878; application filed January 25, 1878.

To all whom it may concern:

Be it known that I, JAMES A. MORRISON, of Karns City, county of Butler, State of Pennsylvania, have invented a new and Improved Combined Elevator and Clamp for Sucker-Rods of Oil-Wells, of which the following is a specification:

In the accompanying drawing, Figure 1 represents a vertical central section on line *x x* of my improved clamp and elevator for sucker-rods of oil-wells; and Fig. 2, a side elevation of the same, partly in section, on line *y y*, Fig. 1, through the safety-slide.

Similar letters of reference indicate corresponding parts.

The object of this invention is to furnish for the sucker-rods of oil-wells an improved elevator and clamp combined that is of simple, strong, and durable construction, dispenses with the use of sucker-rod wrenches, and retains the rods steadily in position, and protects the threaded ends of the same.

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

Referring to the drawing, A represents the main part or lever-arm of my improved clamp and elevator, which lever is swiveled at the upper end to a suspension-ring, B, and made at the lower end in bifurcated shape.

To the lower part of the fork is centrally fulcrumed the clamp C, which is of elongated shape, with two rectangular recesses, *b*, in the ends, of which the longer one extends to the center of the clamp, and is formed with a countersink for the shoulder of the sucker-rod. The opposite shorter recess *b* of the clamp C serves for taking hold of the square neck of the sucker-rod below the shoulder, and takes the place of the common sucker-rod wrenches for screwing the rods on or off.

When the sucker-rods are to be raised or lowered, the longer recess, with countersunk center position, is used, and a safety-slide, D, that moves by a sleeve on the shank of the forked main lever, lowered over the threaded end of the sucker-rod, so as to protect the thread and prevent the rod from moving in any direction.

In case the sucker-rods become parted in the well by any cause, a spear or socket is lowered into the tubing for raising them for connection, which spear or socket often gets fastened on the sides of the tubing, causing a stop to the engine and a slackening of the rope, so as to produce the parting of the old style of clamp or elevator from the rods, and leaving them without support, and liable to drop back into the well or hole, causing serious danger, and often delays.

This is all avoided by my combined clamp and elevator, which securely retains the rod by the safety-slide, and may be worked with great facility in all its applications, whether used for elevating purposes or as a wrench.

The device may be made of any suitable metal, and of sufficient strength corresponding for the size of the sucker-rods to be carried.

I am aware that tube-clamps having a forked rod connected at the upper part with a swiveled loop, and at the lower with a clamp, are not new; but

What I claim is—

A combined elevator and clamp for the sucker-rods of oil-wells, consisting of a forked main lever, a recessed clamp, fulcrumed to the fork of the same, and a safety-slide, guided along the shank of the main lever, substantially as and for the purpose described.

JAMES ALEXANDER MORRISON.

Witnesses:
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C. WATHEY.