(No Model.)

E. S. BABCOCK.

PIPE HOLDER AND LIFTER.

No. 328,174. Patented Oct. 13, 1885.

Fig. 1.

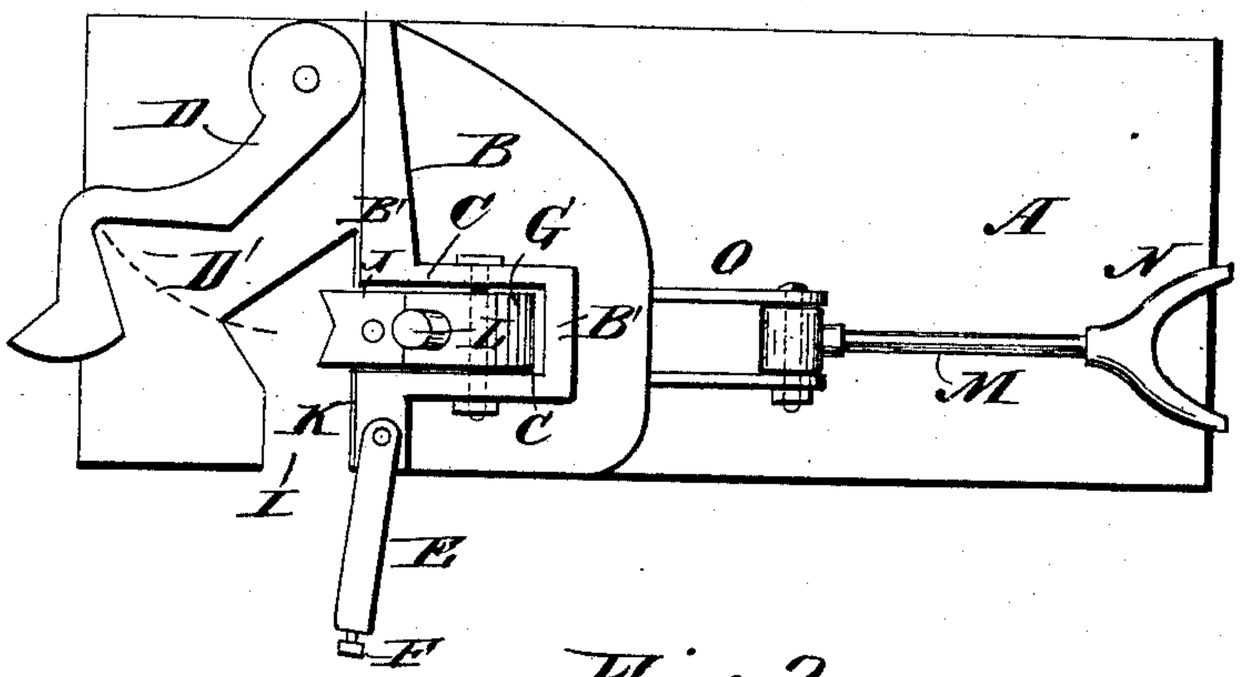
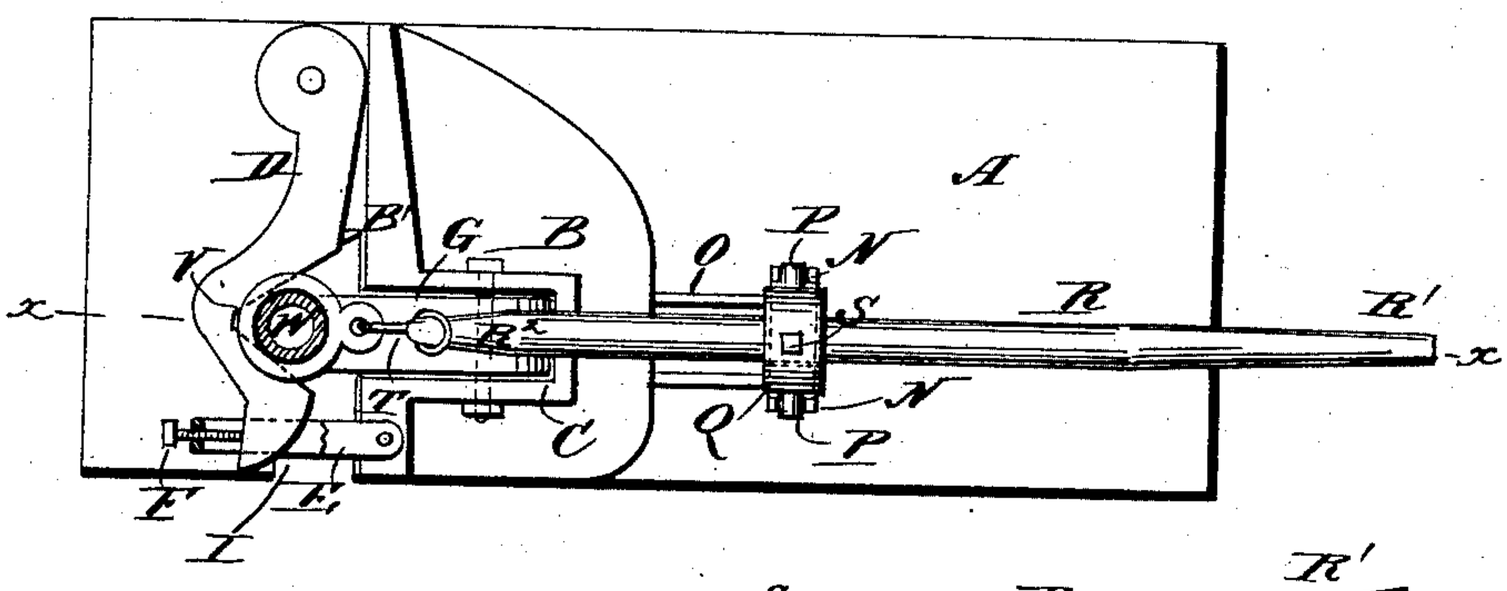


Fig. 2.



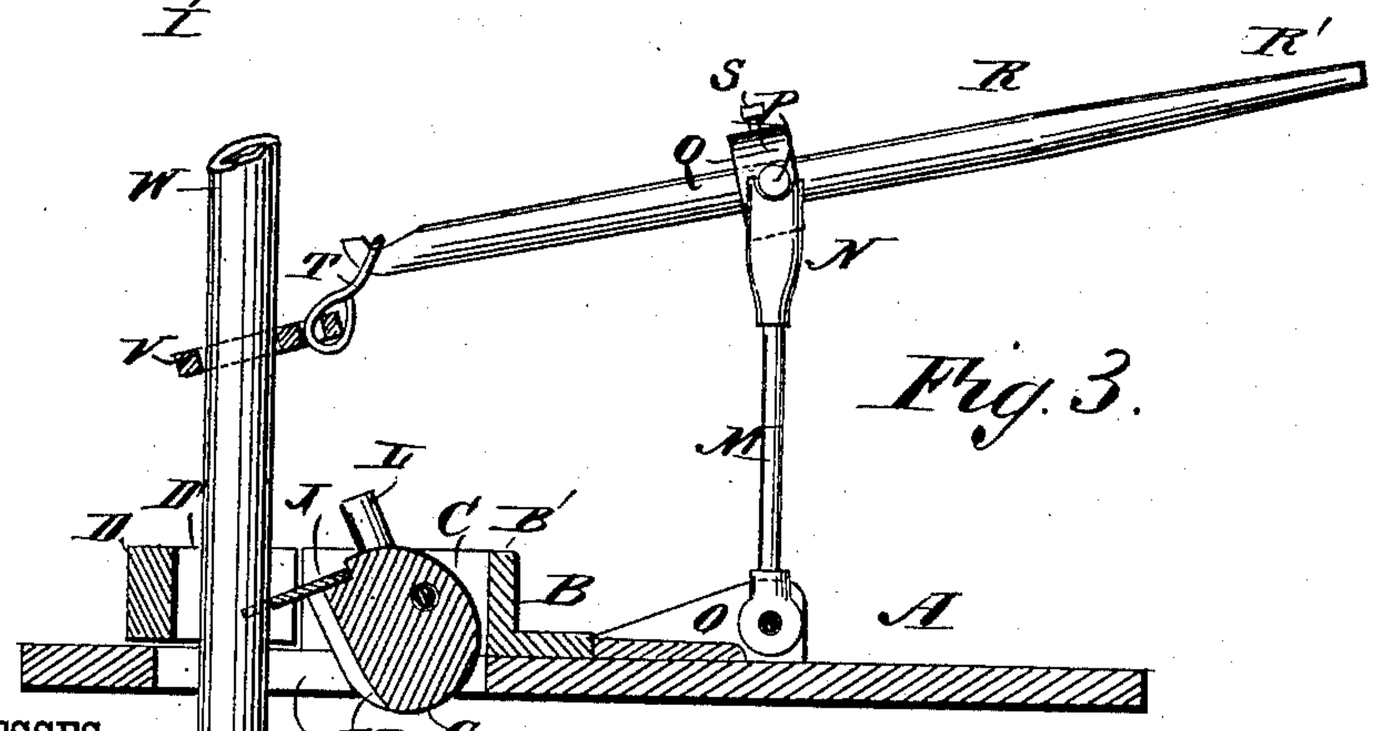


Fig. 3.

WITNESSES:

F. McArdle.

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UNITED STATES PATENT OFFICE.

E. STILLMAN BABCOCK, OF MILTON, WISCONSIN, ASSIGNOR TO HIMSELF AND HENRY F. CLARK, OF SAME PLACE.

PIPE HOLDER AND LIFTER.

SPECIFICATION forming part of Letters Patent No. 328,174, dated October 13, 1885.

Application filed March 14, 1885. Serial No. 158,924. (No model.)

To all whom it may concern:

Be it known that I, E. STILLMAN BABCOCK, of Milton, in the county of Rock and State of Wisconsin, have invented a new and Improved Pipe Holder and Lifter, of which the following is a full, clear, and exact description.

The object of my invention is to provide a new and improved apparatus for raising pipes from Artesian, oil, and other wells, also for holding and lowering the said pipes.

The invention consists in the combination, with a jaw-block, of a pivoted clamping-lever, an eccentric pivoted in the jaw-block, and a lever for raising or lifting the pipe.

The invention also consists in parts and details and combinations of the same, as will be fully set forth hereinafter.

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 plan view of my improved pipe holder and lifter. Fig. 2 is a plan view of the same with a pipe and the raising-lever. Fig. 3 is a longitudinal sectional elevation of the same on the line *x x*, Fig. 2.

On a base-platform, A, constructed of strong timbers, a casting or jaw-block, B, is secured, provided with a U-shaped recess, C, on the edges of which recess and the edges of the block the upwardly-projecting flange B′ is formed.

A clamping-lever, D, connected with the casting B by a hinge, is provided with a V-shaped recess, D′, in the inner edge.

A shackle or stirrup, E, is pivoted to the block or casting B in such a manner that it can be swung over the free end of the lever D, and in its cross-piece a set-screw, F, is held.

An eccentric, G, is pivoted in the recess C, and is provided with a groove, H, and with a projecting tongue, J, having a V-shaped recess, K, in its free end.

A pin, L, projects from the top of the eccentric. A rod, M, having a fork, N, on its free end, is pivoted on jaws O on the base-platform A, and the ends of the prongs are notched to receive the trunnions or pivots P, projecting from a collar, Q, through which the hoisting-lever R is passed, which collar can be held on the lever by means of a binding-screw, S. The end R′ of the lever R is tapered to fit into one end of a gas-pipe, and the other end, R², is hooked.

A link, T, is held on the hooked end, and is connected with the grappling-ring V, through which the pipe W, to be raised, held, or lowered, is passed. The base-platform A has a recess, I, as shown.

The operation is as follows: The lever D is swung against the pipe W and held in place by the shackle E, which is swung over it. By means of the screw F the shackle is adjusted according to the diameter of the pipe. For thick pipes the screw F must project inward from the cross-piece a greater distance than for thin pipes. The end of the tongue J of the eccentric G rests against the pipe W, under the action of the weight of the eccentric and pipe. The end R′ of the lever R is raised and the ring V slides down the pipe W and grips the said pipe. By pressing down the end R′ of the lever R the pipe is raised by means of the ring V, and when the lever is released the tongue J grips the pipe W and holds it while the ring V is being moved downward.

When the pipe is to be lowerd the eccentric G is turned to bring the grooved edge against the pipe, the eccentric thus acting as a brake to prevent the pipe from descending too rapidly. A gas-pipe is used to lengthen the lever R, and the said gas-pipe is also used to turn the eccentric, the pin L being passed into the gas-pipe, so that the same can be used as a handle.

The rod M can be swung down upon the platform A when not in use, and is thus entirely out of the way.

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

1. In a pipe-holder, the combination, with a fixed jaw-block, of a pivoted clamping-lever, and an eccentric pivoted in the fixed jaw-block, substantially as herein shown and described.

2. In a pipe-holder, the combination, with a fixed jaw-block, of a pivoted clamping-le-

ver, and an eccentric pivoted in the jaw-block, and having a projecting tongue provided with a notched end, substantially as herein shown and described.

3. In a pipe-holder, the combination, with a fixed jaw-block, of a pivoted clamping-lever, an eccentric pivoted in the jaw-block and having a grooved edge, and a tongue provided with a notched end, substantially as herein shown and described.

4. In a pipe-holder, the combination, with the jaw-block B, of the pivoted clamping-lever D, having a recess, D′, the shackle E, pivoted in the block B, and provided with a set-screw, F, and the eccentric G, pivoted in the jaw-block, substantially as herein shown and described.

5. In a pipe holder and lifter, the combination, with the platform A, of the rod M, pivoted on the same, and having a fork, N, on its free end, the lever R, the collar Q, having trunnions or pivots P, the screw S, the ring V, and devices for holding the pipe, substantially as herein shown and described.

E. STILLMAN BABCOCK.

Witnesses:

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