

(No Model.)

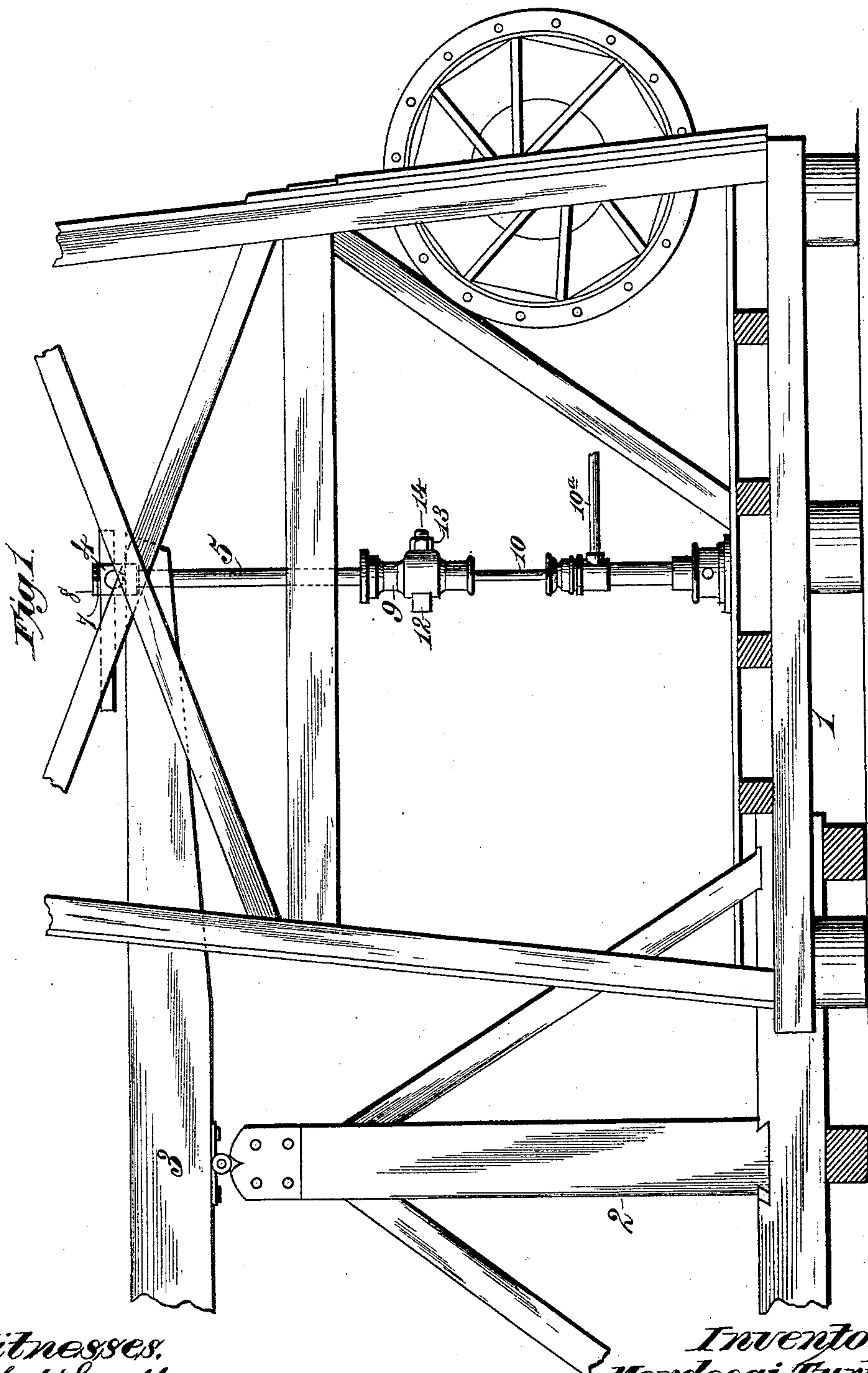
2 Sheets—Sheet 1.

M. TURTON.

APPARATUS FOR REMOVING PARAFFINE FROM THE PIPES OF OIL WELLS.

No. 424,837.

Patented Apr. 1, 1890.



Witnesses.
Robert Smith
Geo. W. Rear

Inventor:
Mordecai Turton.
By *James L. Norris*
Atty.

(No Model.)

2 Sheets—Sheet 2.

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Fig. 2.

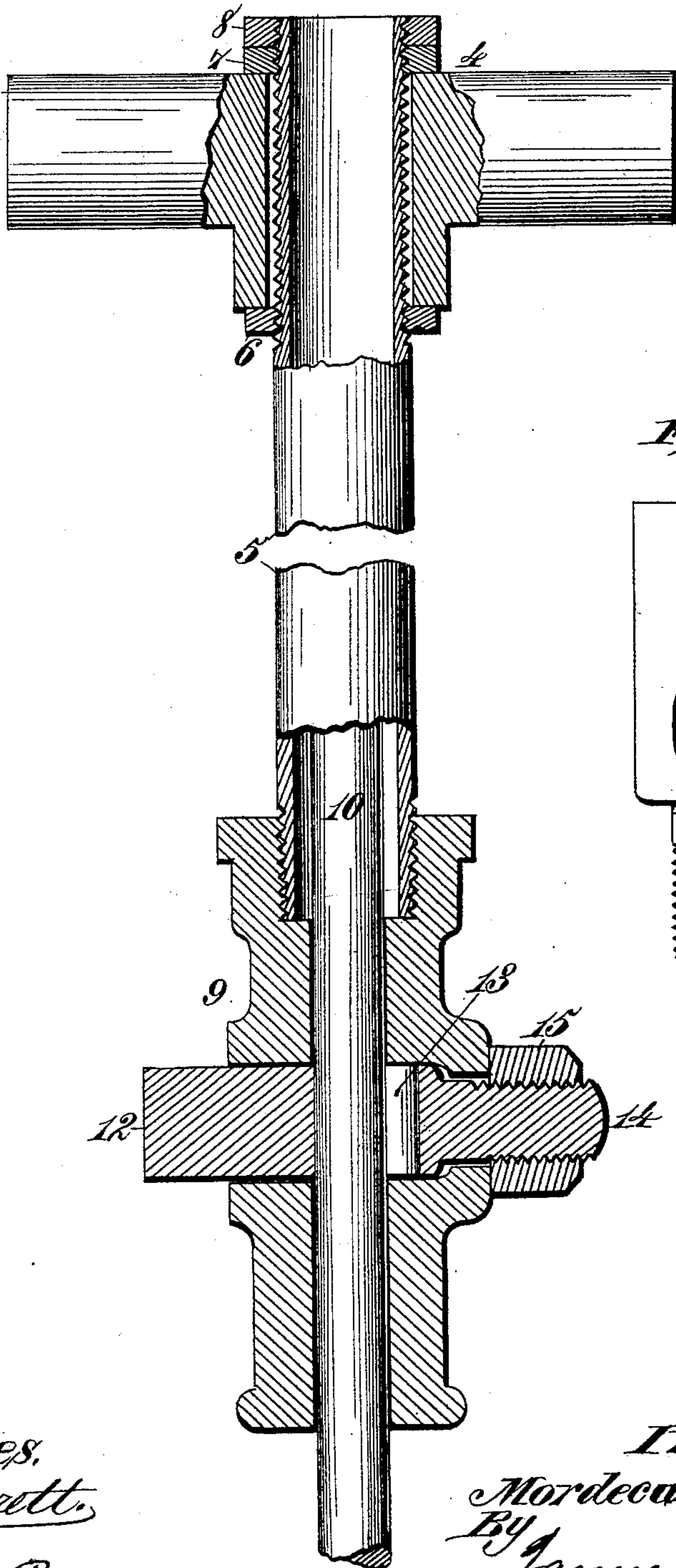
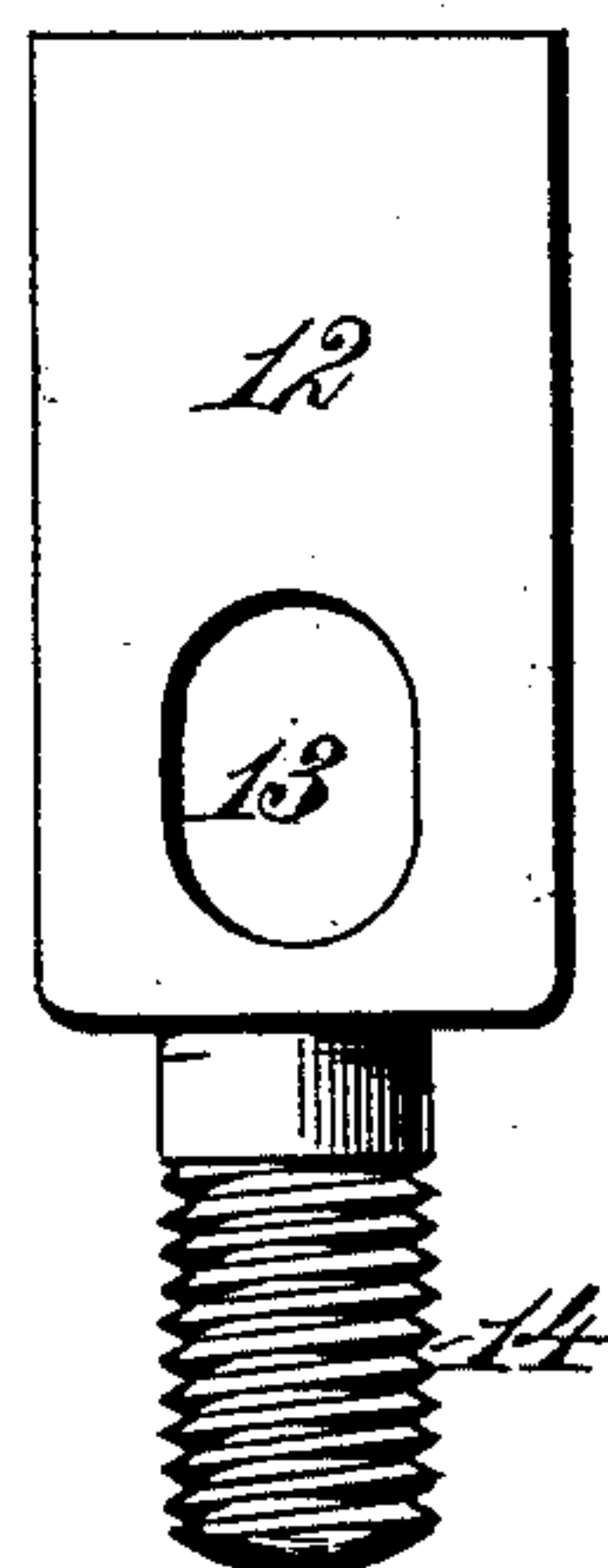


Fig. 3.



Witnesses.
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UNITED STATES PATENT OFFICE.

MORDECAI TURTON, OF LIMA, OHIO.

APPARATUS FOR REMOVING PARAFFINE FROM THE PIPES OF OIL-WELLS.

SPECIFICATION forming part of Letters Patent No. 424,837, dated April 1, 1890.

Application filed May 25, 1889. Serial No. 312,049. (No model.)

To all whom it may concern:

Be it known that I, MORDECAI TURTON, a citizen of the United States, residing at Lima, in the county of Allen and State of Ohio, have invented new and useful Improvements in Apparatus for Removing Paraffine from the Pipes of Oil-Wells, of which the following is a specification.

My invention relates to devices for removing paraffine from the tubing of oil-wells; and the purpose thereof is to provide simple and easily-operated devices whereby this result may be effected without removing or pulling the rods out of the well and without arresting the action of the pumping mechanism.

The invention consists in the novel features of construction and combinations of parts hereinafter described and claimed.

Referring to the accompanying drawings, Figure 1 is an elevation of an ordinary pumping mechanism in which my invention is embodied. Fig. 2 is a detail section, enlarged, of the parts comprising said invention. Fig. 3 is a detail view of the plug holding the pump-rod.

In the said drawings, the numeral 1 denotes the foundation-frame of an ordinary pumping rig, and 2 designates the samson-post upon which the walking-beam 3 is mounted. Upon the end of the walking-beam is placed a cross-head 4, having a central opening, in which is inserted loosely the threaded end of a metallic pipe 5 of an inch and a half diameter, or thereabout. Upon this pipe is screwed a nut 6, lying below the cross-head 4, and upon the upper extremity of said pipe, which projects above the cross-head, a nut 7 is turned and held by a jam-nut 8, this construction enabling the pipe to turn freely in either direction in the cross-head. Upon the lower end of said pipe is attached the grip 9, having a central bore receiving the polished pump-rod 10, which may extend into and through the pipe 5 above. Crossing this bore is an opening, within which is inserted the plug 12, provided with an elongated aperture 13, through which the rod 10 passes. On

one end of said plug is a threaded stem 14, which receives a nut 15, by the draft of which upon the plug, as the nut is turned up against the grip 9, the rod 10 is securely fastened at any point.

The manner of using the apparatus is as follows: The rod 10 is connected to the rods in the tube or pipe, and these extend to the bottom of the well. As the paraffine forms in the pipe, the pipe 10 is turned by any suitable means—such, for example, as the lever 10^a, shown in Fig. 1—so as to revolve it upon its own axis, the action of the pump being continued meantime without any interruption. By this means the adhering paraffine is loosened from the pipes and pumped up with the oil. As the pipe is cleaned in one portion, the rod 10 may be raised in the pipe 5, whereupon the operation is repeated, and this may evidently be continued as far as desired or necessary. This mode of procedure avoids the necessity of removing the pump-rods from the well and obviates the interruption of work which results therefrom, as well as the heavy expense resulting from the loss of time and the labor incident to the withdrawal of the pumping devices.

What I claim is—

1. The combination, with a walking-beam and a cross-head having a vertical orifice, of a pipe swiveled at its upper end portion within the orifice of the cross-head to freely revolve axially therein and depending below the cross-head and walking-beam, a grip secured to the lower end of the swiveled revoluble pipe and turning therewith, and a revoluble pump-rod lengthwise adjustable in the grip, and extending therethrough into the revoluble pipe and turning in unison with said pipe and its attached grip, for removing the adhering paraffine from the piping of an oil-well pump, substantially as described.

2. The combination, with a walking-beam, of a cross-head thereon having a vertical orifice, an axially-revoluble pipe extending through the orifice and depending below the walking-beam, a nut on the pipe both above and below the cross-head, a grip secured to

the lower end of the revoluble pipe, turning
therewith and comprising a transverse orifice,
and an adjustable plug therein, having an
elongated orifice, and a revoluble pump-rod
5 lengthwise adjustable in the grip, and extend-
ing therethrough into the revoluble pipe and
turning therewith in unison with said pipe
and its attached grip, for removing the ad-

hering paraffine from the piping of an oil-well
pump, substantially as described. 10

In testimony whereof I have affixed my sig-
nature in presence of two witnesses.

MORDECAI TURTON.

Witnesses:

THOS. G. LANEY,
A. T. VAN SICKLE.