(No Model.)

D. T. LANE.

PUMPING APPARATUS FOR OIL WELLS.

No. 342,112. Patented May 18, 1886.

Fig. 1.

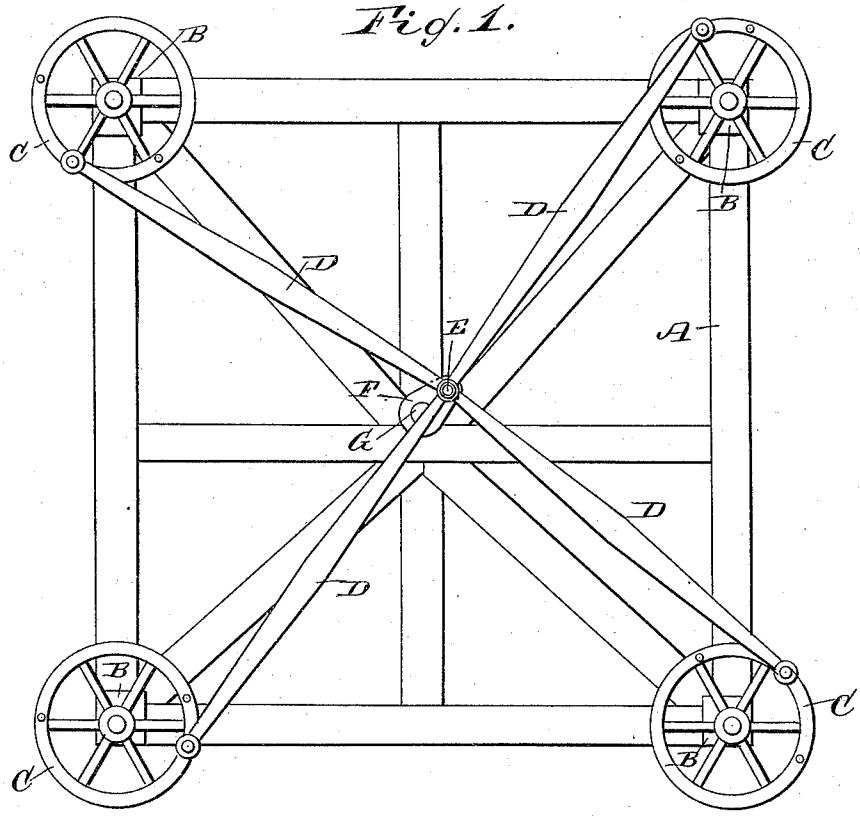
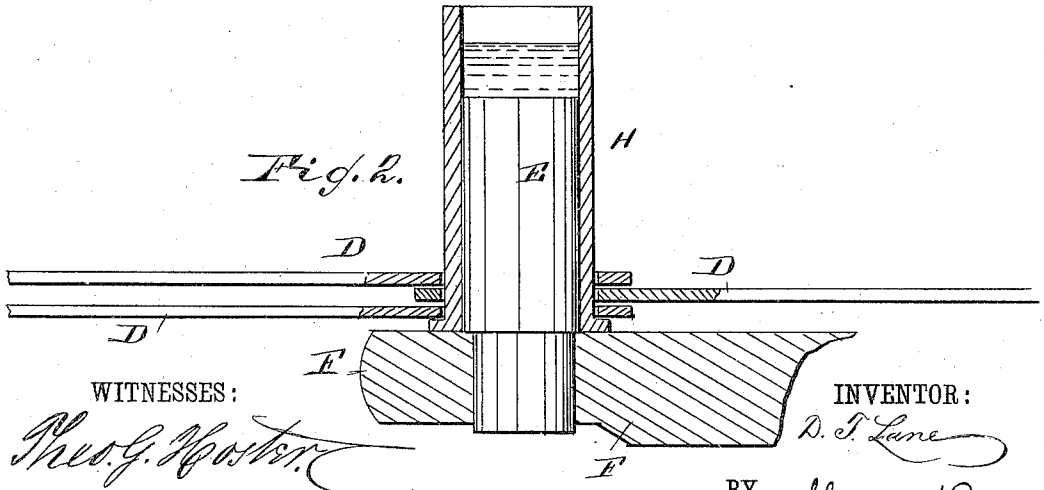


Fig. 2.



WITNESSES:

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UNITED STATES PATENT OFFICE.

DAVID T. LANE, OF FRANKLIN, PENNSYLVANIA.

PUMPING APPARATUS FOR OIL-WELLS.

SPECIFICATION forming part of Letters Patent No. 342,112, dated May 18, 1886.

Application filed August 11, 1885. Serial No. 174,113. (No model.)

To all whom it may concern:

Be it known that I, DAVID T. LANE, of Franklin, in the county of Venango and State of Pennsylvania, have invented a new and Improved Pumping Apparatus for Oil-Wells, 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 operating a series of oil-wells from a single driving mechanism.

The invention consists in the construction and combination of parts and details, as will be fully set forth hereinafter, and pointed out in the claims.

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 both the figures.

Figure 1 is a plan view of my improved pumping mechanism for oil-wells. Fig. 2 is an enlarged detail cross-sectional elevation of the wrist-pin and the ends of the pitmen.

On the sides or corners of the top frame, A, of the building containing the motor or driving mechanism the plates B are secured, each provided with a journal on each of which an oscillating wheel, C, is mounted. The wheels are connected by pitmen D with a wrist-pin, E, projecting upward from a crank, F, on the end of the shaft G, projecting upward from the inside of the building. The crank and the plates B are in the same plane. The pin E is surrounded by a sleeve, H, provided at the bottom with a flange. The pitmen D are provided with apertures, through which the sleeve passes, one pitman resting on the other.

The sleeve H projects above the top of the pin E, and forms an oil-chamber for lubricating the pin and its sleeve.

The pitmen must be made flat, as quite a number of the same must sometimes be mounted on the same pin.

As the pitmen are very thin they would cut the wrist-pin, and to prevent this the protecting-sleeve is passed on the pin E.

The wheels C are all oscillated from the central shaft, G, and the pump-rods are connected with said wheels.

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

1. The combination, with frame A, of a shaft in the same, a crank on the upper end of the shaft, plates on the building, journals on the plates, wheels on the journals, and pitmen connecting the wheels and the crank, the crank and the journals being in the same plane, substantially as herein shown and described.

2. The combination, with a crank, of a wrist-pin on the same, a sleeve surrounding the pin, and of a series of pitmen surrounding the sleeve, substantially as herein shown and described.

3. The combination, with a crank, of a wrist-pin on the same, of a sleeve surrounding the pin and projecting from the top of the same, and a series of pitmen mounted on the sleeve, substantially as herein shown and described.

DAVID T. LANE.

Witnesses:
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