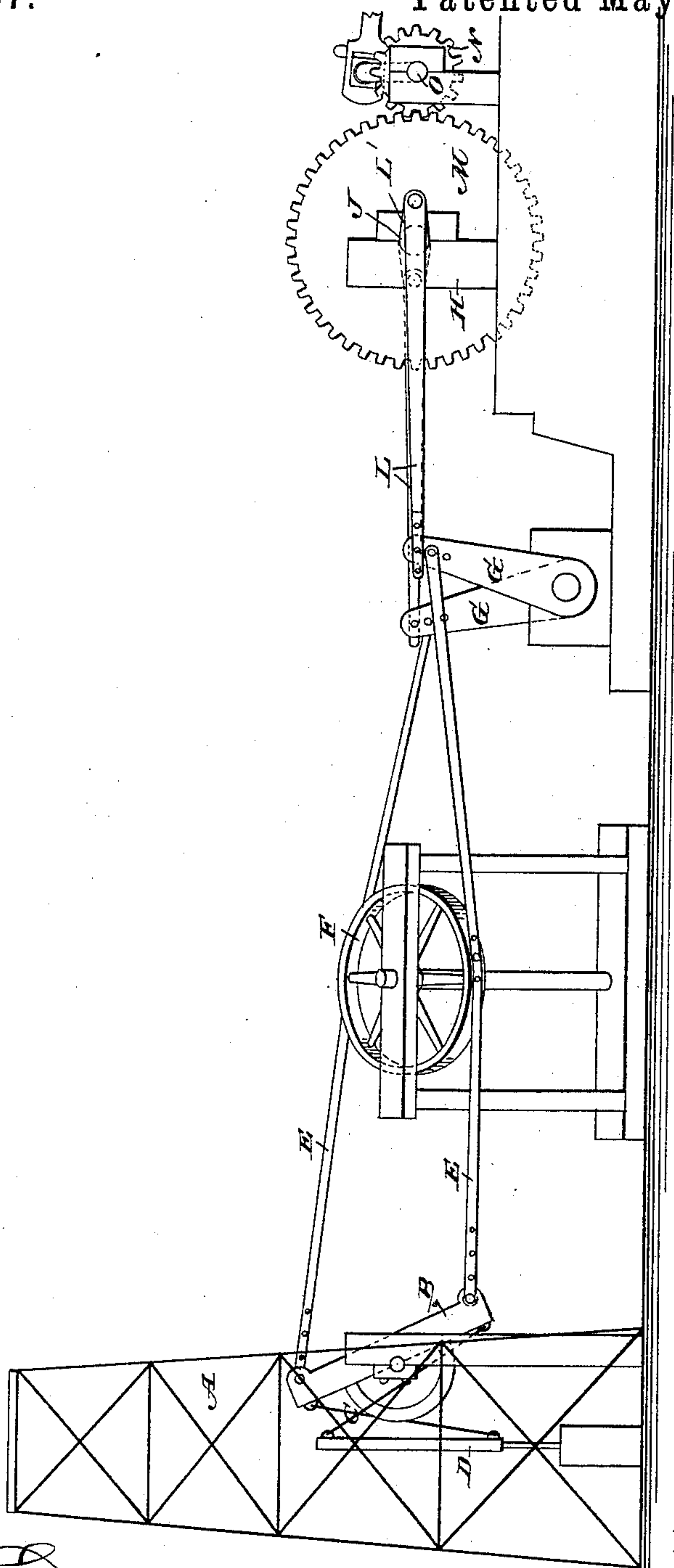


(No Model.)

A. W. CARNAHAN.
PUMPING AND DRILLING MACHINE.

No. 341,637.

Patented May 11, 1886.



WITNESSES:

John Beyer
W. Bedgwick

INVENTOR:

A. W. Carnahan

BY

Munn & Co

ATTORNEYS.

UNITED STATES PATENT OFFICE.

ABRAHAM W. CARNAHAN, OF ROUSEVILLE, PENNSYLVANIA.

PUMPING AND DRILLING MACHINE.

SPECIFICATION forming part of Letters Patent No. 341,637, dated May 11, 1886.

Application filed October 15, 1885. Serial No. 179,972. (No model.)

To all whom it may concern:

Be it known that I, ABRAHAM W. CARNAHAN, of Rouseville, in the county of Venango and State of Pennsylvania, have invented a
5 new and Improved Pumping and Drilling Machine, of which the following is a full, clear, and exact description.

The object of my invention is to provide a new and improved machine for drilling wells
10 and pumping, which machine is simple in construction, is not expensive, is not apt to get out of order, and has fewer parts than the pumping and drilling machines used heretofore.

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

Reference is to be had to the accompanying
20 drawing, forming a part of this specification, in which a side view of my improved machine for drilling and pumping is shown.

In the tower A, of the usual construction, the rocking lever B is pivoted, and is connected by the two bands C, chains, or other
25 devices, with the pump or drill rod D, of the usual construction. The two bars E are connected with the opposite ends of the lever B, are passed over the wheel F, and are connected
30 with the upper ends of the rocking levers G.

In the standards H the shaft J is journaled, which is provided with the opposite end cranks, L', which are connected with the pitmen L, connected with the rocking levers G.

On the shaft J the cog-wheel M is mounted, 35 which engages with the pinion N on the crank-shaft O of the engine.

The crank-shaft J is revolved from the engine by means of the cog-wheel M and the pinion N, and the levers G are rocked by 40 means of the pitmen, and thus the bars E are reciprocated in opposite directions, and thereby the drill or pump rod D is worked up and down.

If desired, only one pitman, L, lever, G, and 45 bar, E, may be used.

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

1. The combination, with a pump or drill 50 rod, of a rocking bar connected with the same, bars connected with the rocking bar, and a cog-wheel and pinion for reciprocating said bars direct from the crank-shaft of an engine, substantially as herein shown and described. 55

2. The combination, with a pump or drill 60 rod, of a rocking bar for operating the same, bars connecting the same with rocking levers, pitmen connecting the rocking levers with a crank-shaft, a cog-wheel on the crank-shaft, and a pinion on the crank-shaft of the engine, which pinion engages with the said cog-wheel, substantially as herein shown and described.

ABRAHAM W. CARNAHAN.

Witnesses:

L. D. GRANT,
W. C. TYLER.