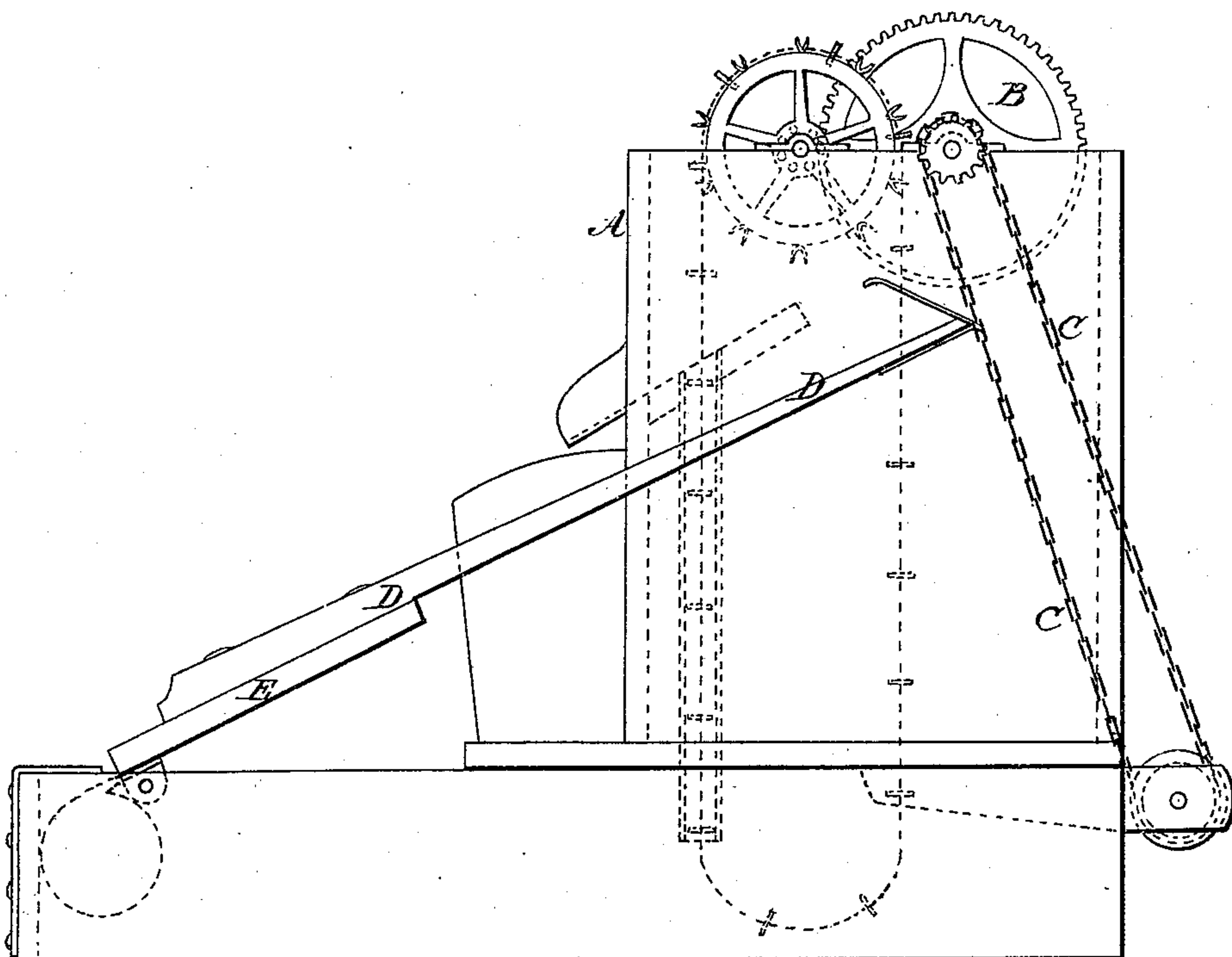


J. H. McCONNELL.

CATTLE-PUMP.

No. 181,459.

Patented Aug. 22, 1876.



WITNESSES:

John E. Lewis

Charles Ketchum.

INVENTOR:

James H. McConnell

UNITED STATES PATENT OFFICE.

JAMES H. McCONNELL, OF PULTNEY, NEW YORK.

IMPROVEMENT IN CATTLE-PUMPS.

Specification forming part of Letters Patent No. **181,459**, dated August 22, 1876; application filed January 28, 1875.

To all whom it may concern:

Be it known that I, JAMES H. McCONNELL, of Pultney, in the county of Steuben and State of New York, have invented a Cattle-Pump, of which the following is a specification:

The object of my invention is to attach machinery to a chain-pump, so that when cattle come to the trough to drink their weight will actuate the pump and raise sufficient water to supply them, by the combination of a wheel and axle with a pinion on the end of the axle, a chain and directing-roller, a lever, and hinged platform for cattle to step upon, so that their weight will put the pump in operation, as shown in the side elevation of the accompanying drawing.

A is the ordinary chain-pump. It may be made any size or dimensions required to raise sufficient quantity of water. The axle of the chain-wheel is provided with a pinion fastened to it. B is a driving-wheel and axle placed on the upper part of the curb. The wheel is connected to the pinion on the chain-wheel axle. On the outer end of the axle is a pinion for a chain to pass over to turn it.

The size of the wheels and pinions may be varied to suit the depth of the well or cistern and the amount of water required.

C is a barred chain that passes over the pinion on the axle of the wheel B. It is made long enough to pass around the pinion and a roller at the platform, as shown in the figure. D is a lever. Its position is shown in the fig-

ure. Its use is to transmit motion from the platform E to the chain C. It is fastened to the platform E, and extends to the chain. The end at the lever is provided with a point that will engage with the chain in its downward motion, and give motion to the chain, and thus operate the pump. Above the point it has an inclined piece, that prevents uniting with the chain in its upward movement, and also allows the pump to be worked by hand, in the ordinary manner, without changing or removing any of the parts.

E is the platform for the cattle to step upon. It may be made any size or shape required. The upper surface may be cleated or roughened to prevent cattle slipping. It is hinged or pivoted to the foundation-timbers, so that it may be turned upward sufficiently. It is provided with a weight on the opposite side of the pivot that will overbalance it and the lever, so that when cattle get off it will be raised to its uppermost position, and be ready for operation again when other cattle come upon it.

I claim as my invention—

The lever D, attached to the platform E, having its point made to engage and disengage with the chain C, substantially as and for the purpose set forth.

JAMES H. McCONNELL.

Witnesses:

JOHN L. LEWIS,
CHARLES KETCHUM.