

UNITED STATES PATENT OFFICE.

WADE COUTS, OF BROWNVILLE, NEBRASKA.

IMPROVEMENT IN PUMPING APPARATUS.

Specification forming part of Letters Patent No. **176,515**, dated April 25, 1876; application filed March 21, 1876.

To all whom it may concern:

Be it known that I, WADE COUTS, of Brownville, in the county of Nemaha and State of Nebraska, have invented a new and useful Improvement in Pumping Apparatus, of which the following is a specification:

Figure 1 is a side view of my improved pumping apparatus. Fig. 2 is a top view of the same.

Similar letters of reference indicate corresponding parts.

The object of this invention is to furnish an improved pumping apparatus which shall be so constructed that the stock may be made to water themselves, and which shall be simple in construction and reliable in use.

The invention consists in the combination of the two wheels, the small roller, the crank, the connecting-rod, the pivoted lever, the two ropes, the two weights, and the treadle-platform with each other, and with the frame and the pump, as hereinafter fully described.

A represents a frame-work, in the upper part of which are pivoted two wheels, B C. Beneath the wheel C is placed a small roller or pulley, D, to the journal of which is attached a small crank, E. To the crank E is pivoted the end of a connecting-rod, F, the other end of which is pivoted to the end of a lever, G. The lever G is pivoted to the frame A, and to its other end is pivoted the end of the piston-rod H of the pump I. J is a rope, the middle part of which makes one or more turns around the roller D, and the ends of which are passed in opposite directions over the wheel C. To the outer end of the rope J is attached a weight, K, sufficient to turn the wheel C and the roller D, and operate the pump. To the inner end of the rope J is at-

tached a weight, L, sufficient to overbalance the weight K and work the pump. To the weight L is attached the end of the rope M, which passes over the wheel B, and with its other end is connected the end of the treadle-platform N. The platform N is arranged in the gateway leading from the feeding-yard to the watering-yard, so that the cattle, in passing in and out through said gateway, must necessarily operate the pump. As the cattle step upon the treadle-platform N, their weight draws down the outer end of the rope M, which raises the weight L, and allows the weight K to descend and work the pump. As the cattle leave the platform N, the weight L descends, which raises the weight K, turns the wheel C in the opposite direction, and again works the pump. A portion of the water raised by the pump may be conducted away to suitable troughs for watering small stock. The trough that receives the water from the pump I should be placed at such a distance from the gateway that the cattle, in standing around it, will not block up the said gateway.

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

The combination of the two wheels B C, the small roller D, the crank E, the connecting-rod F, the pivoted lever G, the two ropes J M, the two weights K L, and the treadle-platform N with each other, and with the frame A and the pump H I, substantially as herein shown and described.

WADE COUTS.

Witnesses:

I. W. CRANMER,
C. E. PLASTERS.