

N. Miller,

Cattle Pump.

No 32,577.

Patented June 18 1861.

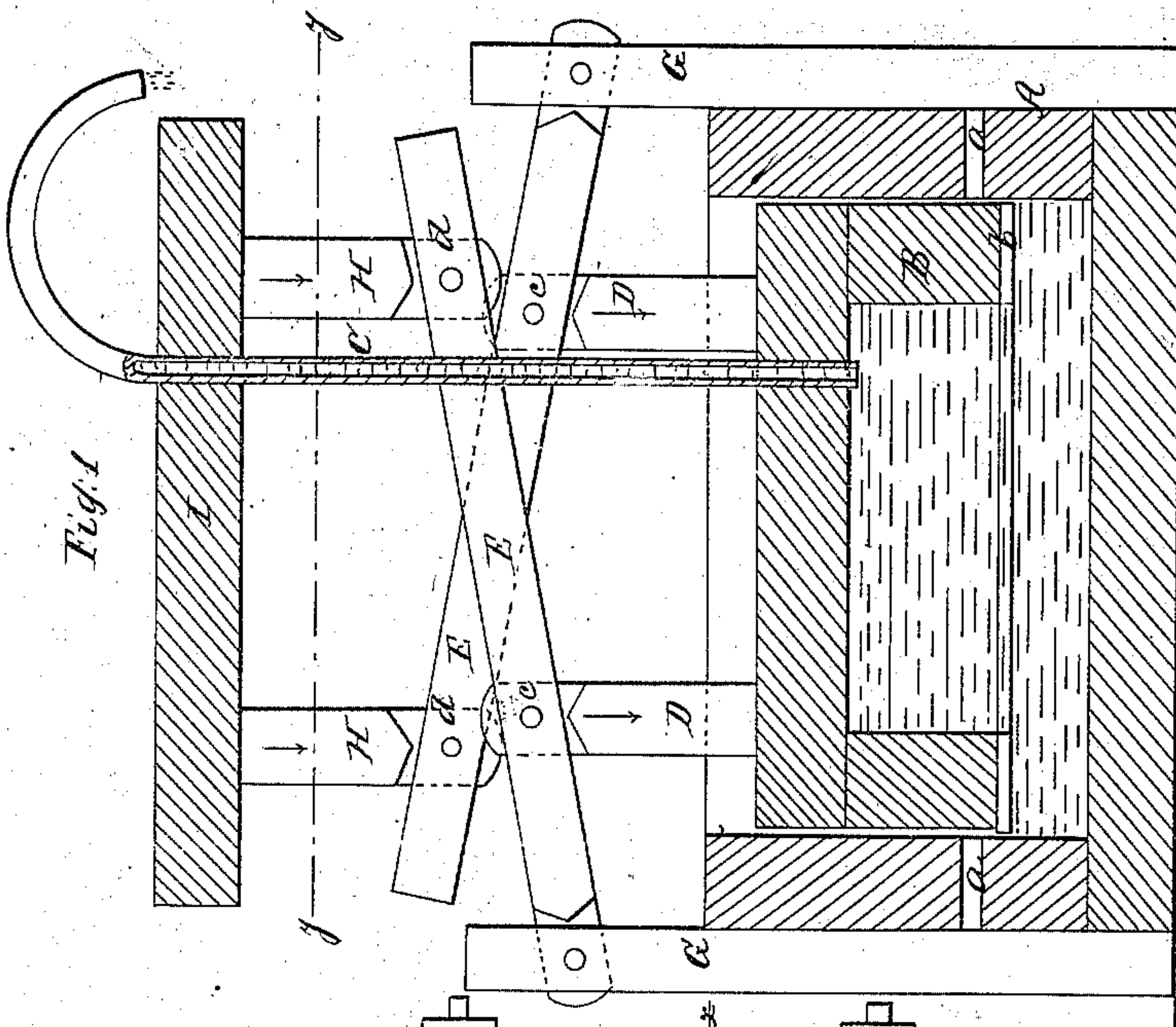


Fig. 1

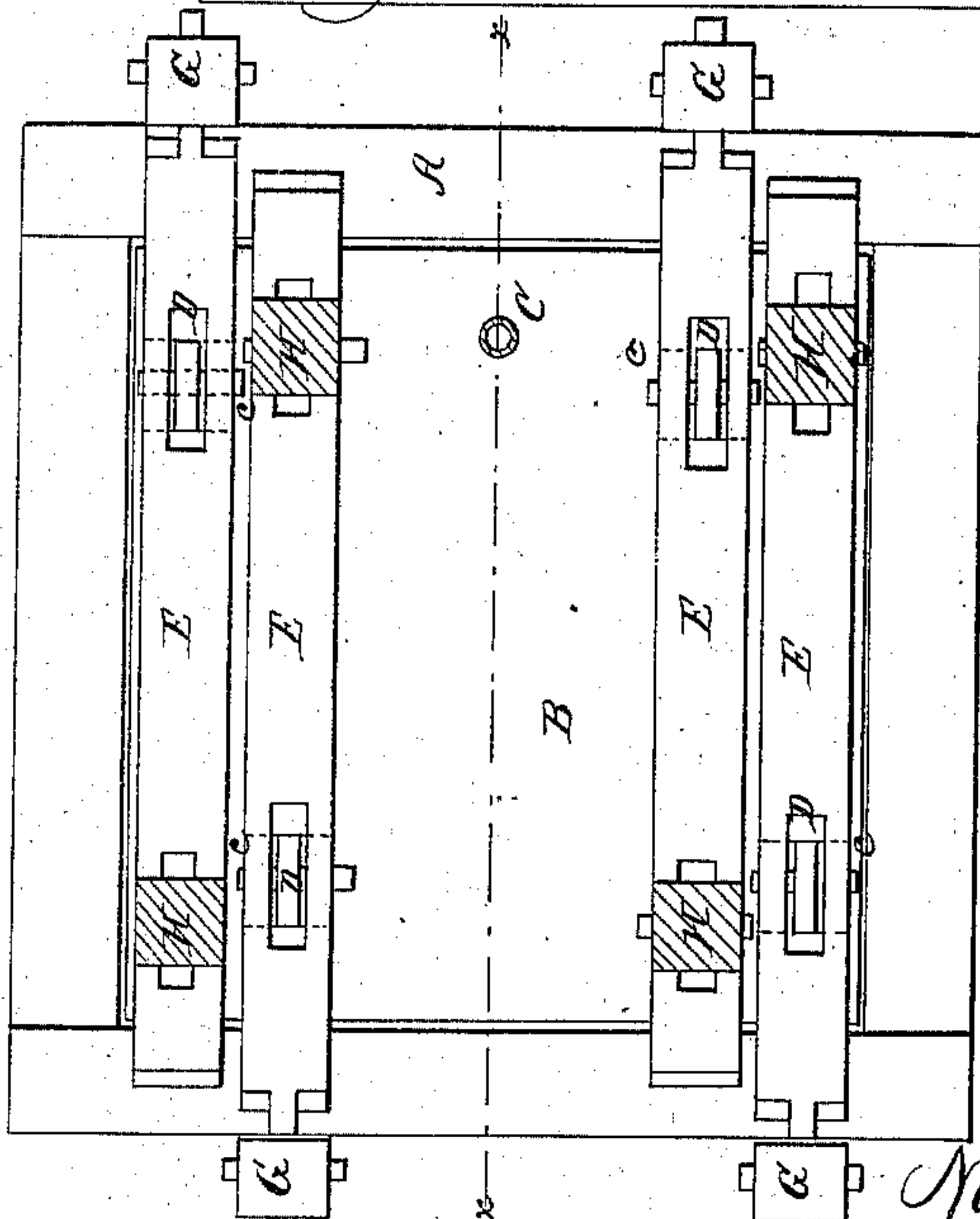


Fig. 2

Witnesses
J. W. Coombs
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per *M. H. Co*
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UNITED STATES PATENT OFFICE.

NATHAN MILLER, OF FINDLAY, OHIO.

PUMP.

Specification of Letters Patent No. 32,577, dated June 18, 1861.

To all whom it may concern:

Be it known that I, NATHAN MILLER, of Findlay, in the county of Hancock and State of Ohio, have invented a new and Improved Pump, Designed Both for a Stock or Cattle Pump and for Domestic Use; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawings, making a part of this specification, in which—

Figure 1, is a vertical central section of my invention, taken in the line *x, x*, Fig. 2. Fig. 2, a horizontal section of the same, taken in the line *y, y*, Fig. 1.

Similar letters of reference indicate corresponding parts in the two figures.

This invention relates to an improvement in that class of pumps in which the water is elevated by a direct pressure of the piston, instead of the pressure of the atmosphere.

The object of the invention is to obtain a pump of the class specified which may be operated with facility, be simple in construction and capable by manual operation of elevating water to any desired height in dwelling houses for domestic use, or capable of elevating it in out-buildings or other localities by means of the cattle or stock the latter raising their own water.

To enable those skilled in the art to fully understand and construct my invention, I will proceed to describe it.

A, represents a tank or box which is placed at the bottom of the well from which the water is to be forced. This box is provided with openings *a*, in its sides which form a communication between the well and the interior of the box, see Fig. 1. Within the box A, there is placed a plunger B, which is of inverted cup-form and has a packing *b*, at its lower edge. In the top of the plunger B, there is fitted a vertical tube C, which extends upward any desired distance, the lower end of the tube C, communicating with the interior of the box A, as shown in Fig. 1.

To the top of the plunger B, there are attached four uprights D, the upper ends of which are fitted in levers E, and secured therein by pins *c*. The levers E, have their fulcrums in uprights G, which are attached to two opposite sides of the box A, two at each side. The inner parts of the levers E, have uprights H, fitted in them, one upright in each lever and to the upper ends of the uprights a platform I, is attached. The uprights H, are secured in the levers E, by pins *d*.

The operation is as follows: By depressing the platform I, the plunger B, will be forced down with facility owing to the connection of the platform and plunger by means of the levers E. The platform I, may be operated by any lever arrangement. When the plunger B, is forced down the water will be forced up from within the box A, through tube C, and when the plunger I, passes above the openings *a*, the box A, fills with water. When the pump is arranged as a stock or cattle pump, the cattle pass on the platform I, and depress it by their own gravity, a weight being applied to the platform to elevate it and the plunger when the cattle pass off from it.

The pump possesses no parts which are liable to get out of repair or become deranged by use, and the pump may be very cheaply constructed.

I do not claim separately any of the parts described; but

I do claim as new and desire to secure by Letters Patent;

The combination of the platform I, box A, and plunger B, provided with the tube C, when the platform and plunger are connected by the levers E, and uprights G, H, arranged substantially as, and for the purpose set forth.

NATHAN MILLER.

Witnesses:

HENRY BYAL,
I. E. STEARNS.