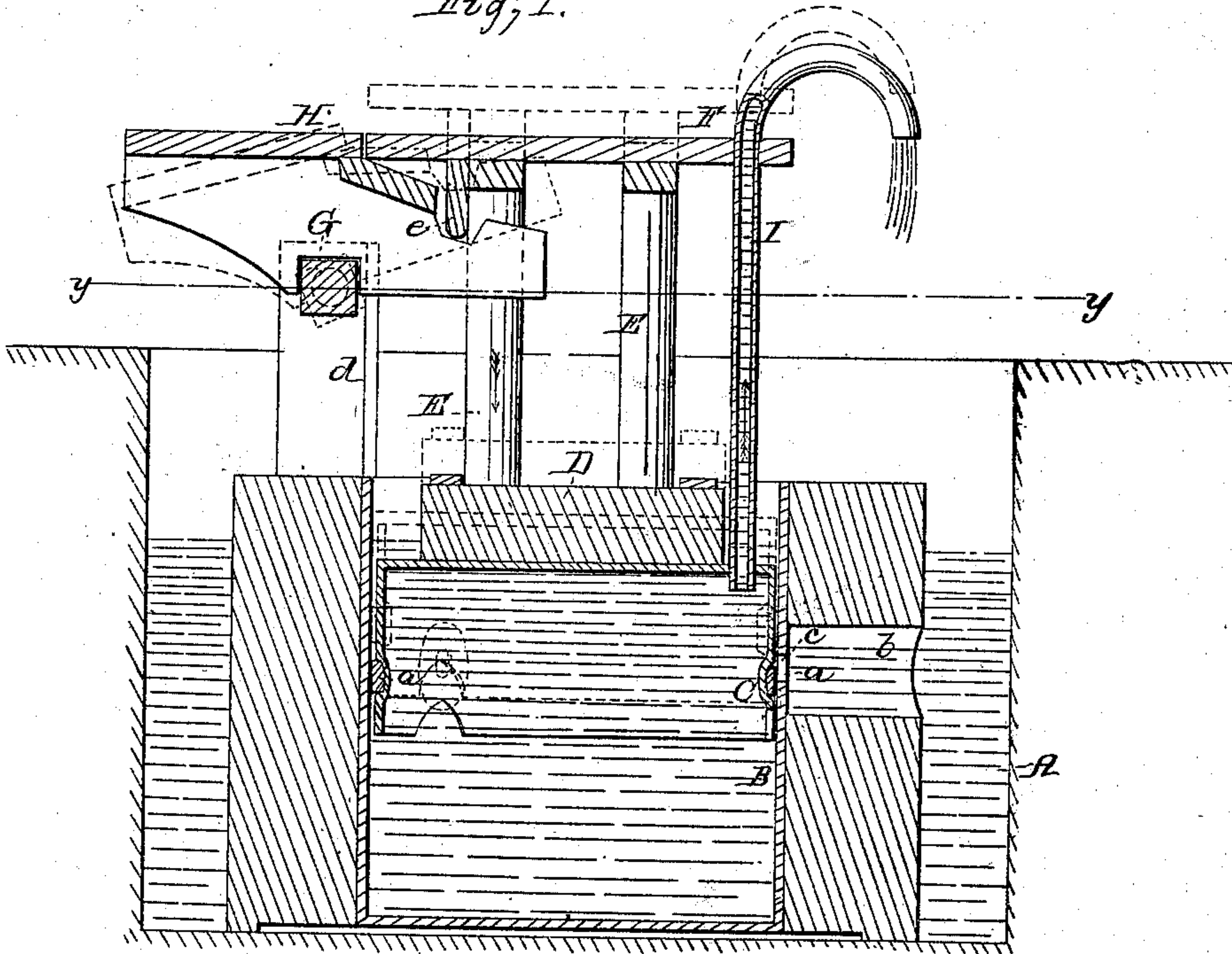


*N. Miller,*  
*Cattle Pump,*

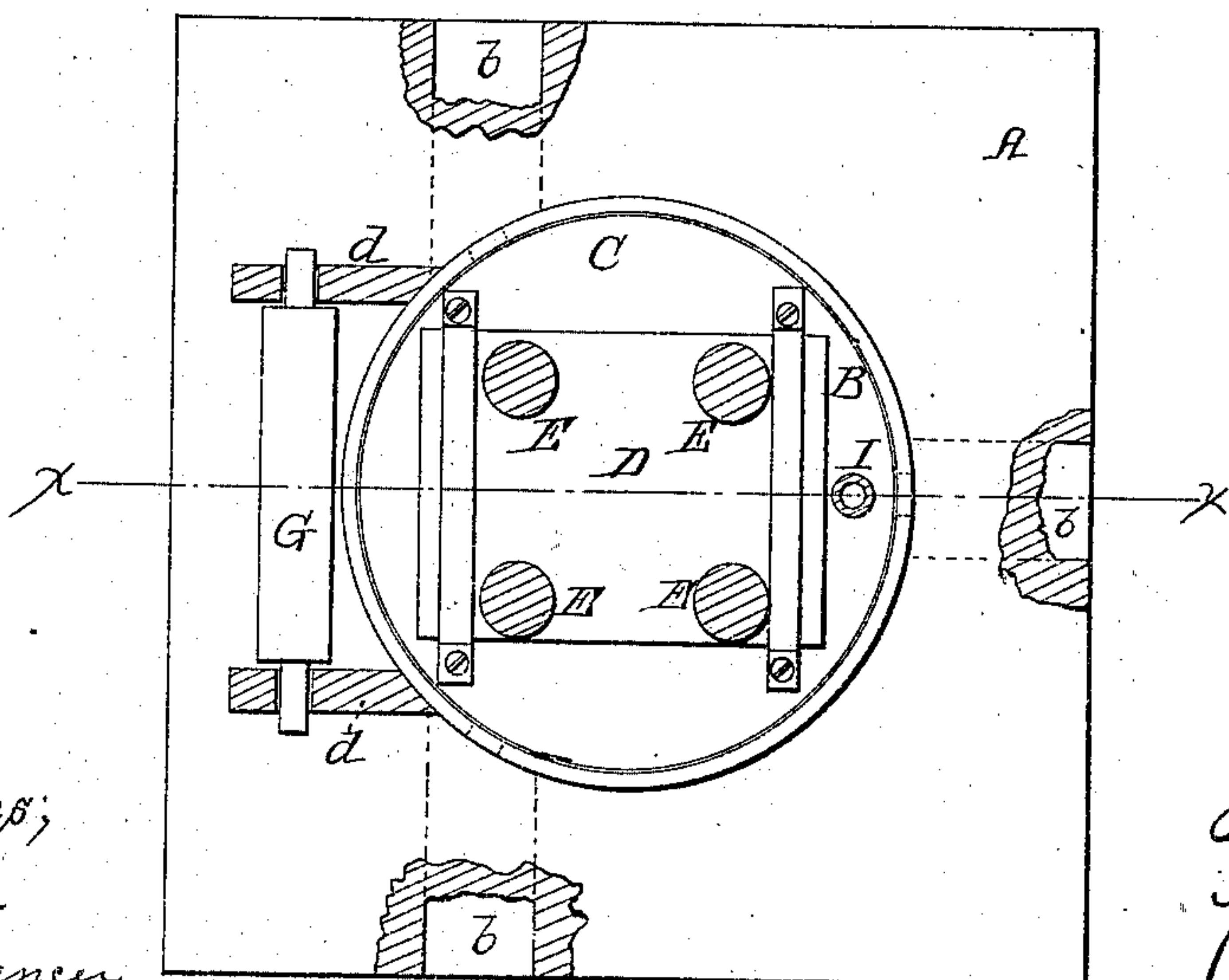
*No 32,576,*

*Patented June 18, 1861*

*Fig; 1.*



*Fig; 2.*



*Witnesses;*  
*Wm. Coombs,*  
*R. S. Spencer*

*Inventor;*  
*Nathan Miller*  
*per Munroe & Co*  
*Attorneys*



# UNITED STATES PATENT OFFICE.

NATHAN MILLER, OF FINDLAY, OHIO.

## WATER-ELEVATOR FOR CATTLE.

Specification of Letters Patent No. 32,576, 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 Chiefly for Raising Water for Stock; 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.

The object of this invention is to obtain a pump of simple construction that will admit of water being readily elevated by stock.

The invention consists in the employment or use of two platforms connected with a piston or plunger which is fitted in a cylinder at the bottom of the reservoir or well and provided with a discharge or eduction pipe; all being arranged as hereinafter shown and described to effect the desired result.

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

A, represents a base or block which is sunk at the bottom of the well, reservoir or river from which the water is to be pumped. This base or block has a metal cylinder B, fitted in it and in this cylinder there is placed a plunger C, which may be described as being an inverted cup of cylindrical form and fitted water-tight within cylinder B, by a packing *a*, as shown clearly in Fig. 1, said packing being of leather or other suitable material.

The base or block A, has one or more horizontal water passages *b*, made into it, and these passages communicate with openings *c*, in cylinder B, as shown in Fig. 1. The plunger C, is of metal and to its upper surface a wooden block D, is attached having four uprights E, secured to it which support a platform F.

On the base or block A, there are secured two uprights *d, d*, in the upper parts of which the journals of a shaft G, are placed, the journals being allowed to turn freely in the uprights *d, d*. On this shaft G, a platform H, rests, the side pieces of which ex-

tend under the platform F, and bear against a pendent ledge *e*, attached to the under side of the platform H, see Fig. 1.

I, is a vertical tube the lower end of which is secured in the plunger C, and communicates with the interior of cylinder B, below the plunger C, as shown clearly in Fig. 1. The tube I, extends up through the platform F, and is curved downward at its upper end in order that the water may be discharged into a proper trough, or receiver.

The operation is as follows. The cattle pass on the platform H, the latter being so placed or arranged as to produce such result, and pass from platform H, on F. When the cattle pass on the platform F, the latter descends and also the plunger C, and the water in the interior of the cylinder B, will be forced up through tube I, and discharged from its upper end. It will be seen that the platform F, will be elevated as the cattle leave it and pass off from the tilting or rocking platform H, and as the inner end of platform H, ascends, the platform F, also ascends and the plunger C, and the cylinder B, will fill with water through the passages *b*. This operation is rendered certain for the last animal that passes off platform H, must certainly tilt it and elevate platform F.

By this arrangement stock may elevate their own water with the greatest facility. The cylinder B, will fill with water by static pressure solely as the plunger C, rises and therefore the pump will operate quite well even if the plunger C, does not work perfectly water-tight in cylinder B. The parts therefore are not liable to get out of repair nor become deranged by use.

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

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

The combination of the tilting platform H, with the platform F, when the latter is connected to the plunger C, which is fitted within the cylinder B, and provided with the eduction or water discharge tube I; all arranged to operate as and for the purpose set forth.

NATHAN MILLER.

Witnesses:

HENRY BYAL,  
I. E. STEARNS.