

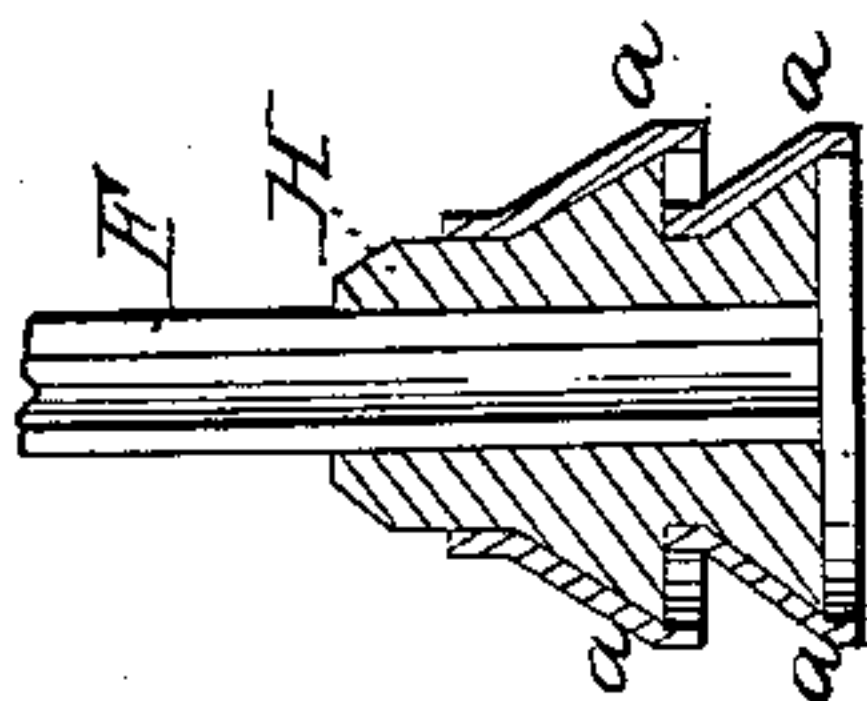
*E. C. Kellogg*

*Cattle Pump.*

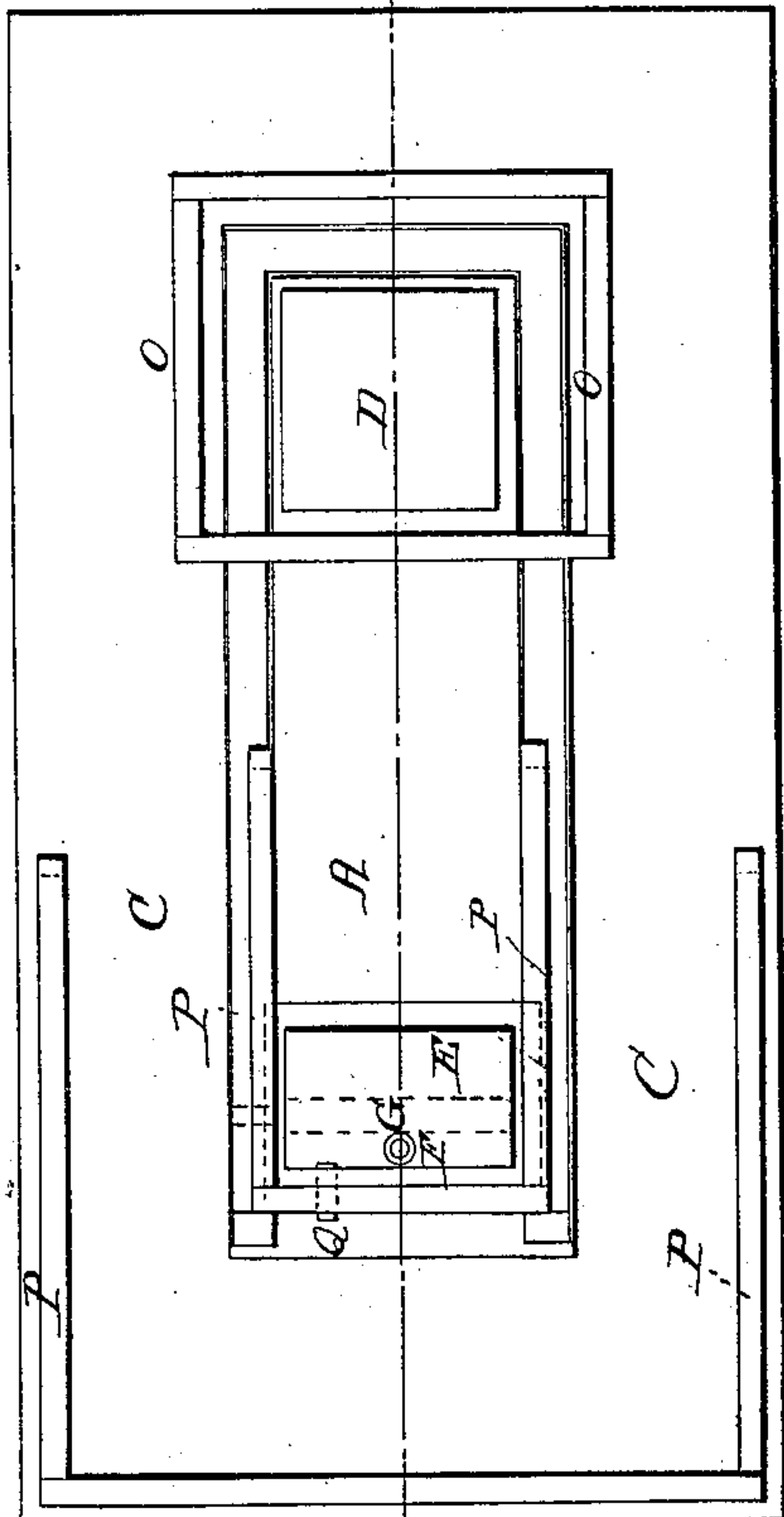
*N<sup>o</sup> 68514.*

*Patented Sep. 3, 1867.*

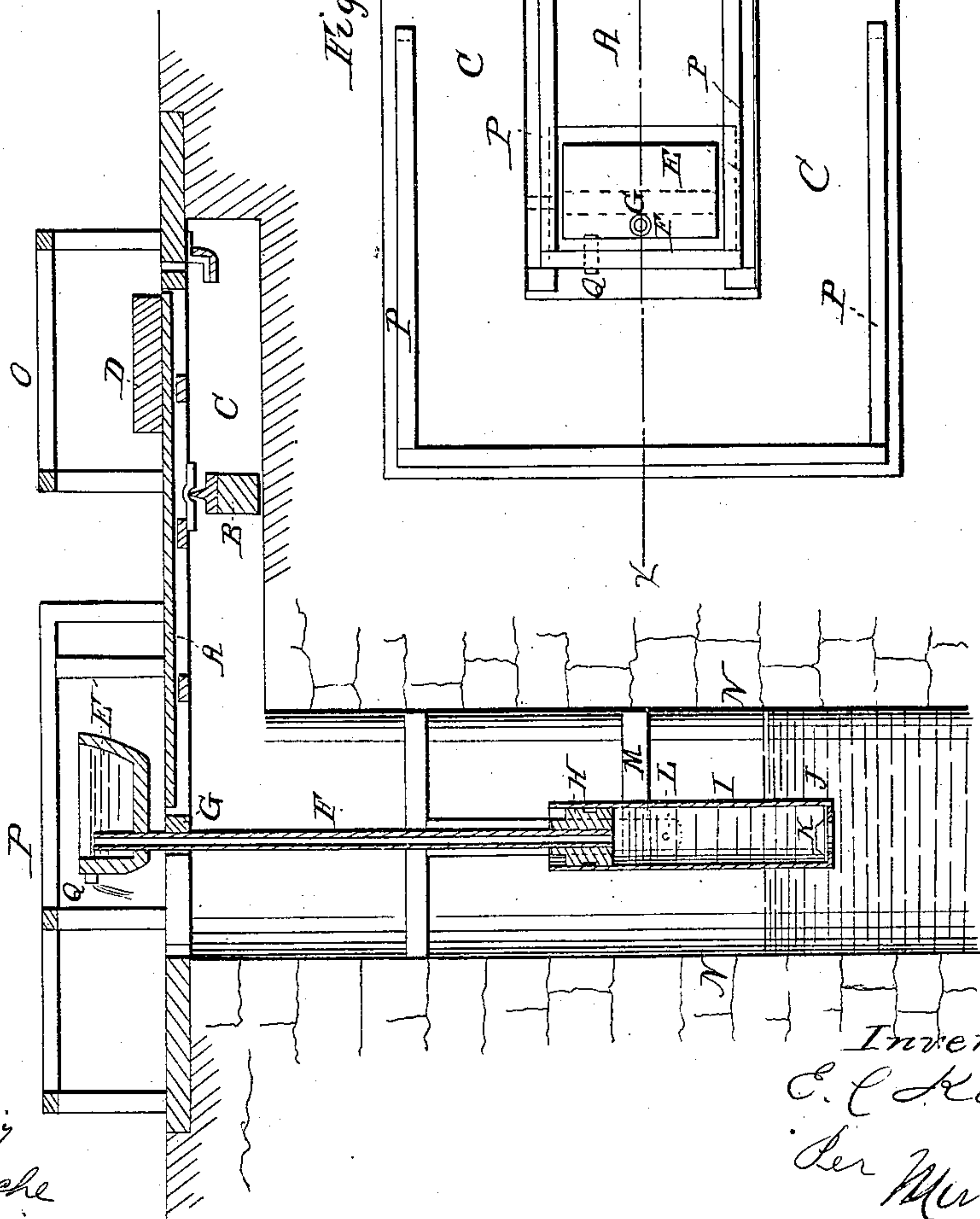
*Fig. 3.*



*Fig. 1.*



*Fig. 2.*



*Witnesses;  
Thos Fische  
J. A. Service*

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# United States Patent Office.

E. C. KELLOGG, OF ROME, NEW YORK.

*Letters Patent No. 68,514, dated September 3, 1867.*

## IMPROVEMENT IN CATTLE-PUMPS.

*The Schedule referred to in these Letters Patent and making part of the same.*

### TO ALL WHOM IT MAY CONCERN:

Be it known that I, E. C. KELLOGG, of Rome, in the county of Oneida, and State of New York, have invented new and useful Improvements in "Pumps;" and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification.

This invention relates to that class of cattle or stock-pumps adapted for forcing water from wells, whereby the weight of the animals pumps the water for their own drinking, and a surplus for sheep, hogs, &c.; and it consists in the arrangement of the platform bearing to rocker-beam with the oscillating cylinder placed in the well, as hereinafter described. In the accompanying plate of drawings my improvements are illustrated—

Figure 1 being a plan or top view of the platform to the stock or cattle-pump.

Figure 2, a longitudinal vertical section, taken in the plane of the line *x x*, fig. 1; and

Figure 3, a detail view of the plunger or follower to the pump-cylinder, hereinafter referred to.

Similar letters of reference indicate like parts.

A in the drawings represents the platform, upon which the cattle or other animals are to pass for drinking purposes. This platform A is balanced upon centres or bearings of the cross-beam B, forming a part of the framing C in which the platform is hung. One end, D, of the platform is weighted, while at the other a suitable drinking-trough, E, is placed that is secured to the upper end of a hollow tubular piston-rod, F. This rod F projects into the trough, above the bottom of the same, and below the trough is strapped to one side of a cross-beam, G, hung at each end to the framework of the platform, so as to rock thereon. H, a follower or plunger, secured to lower end of piston-rod E. This plunger is made with a double-flared or bevelled edge or periphery, around each bevel of which a packing-ring or strap of leather, *a*, is placed, which leather I deem it best to pass or extend a little beyond the extreme outer edge of the said bevel or flared portions, as is plainly shown in fig. 3 of the drawings. This plunger is arranged to move within a hollow cylinder, I, that at its lower end is closed with an end or head-plate, J, provided with a valve, K, opening upwards. This cylinder I is hung by side trunnion-pins L to the framework M upon the inside of the cistern or well-reservoir N, so that it can swing thereon in unison with the tilting motion of the platform A to accommodate the cylinder to the change of direction vertically of the plunger and its tubular piston-rod. O, a railing, surrounding weighted end of platform A, and P a railing partially surrounding the end of platform at which the drinking-trough is placed. Q, an overflow pipe, projecting from the rear side of a drinking-trough.

From the above description it is plainly obvious that by the weight of the cattle upon the platform such platform is caused to be tilted thereby, which, depressing the plunger in the pump-cylinder, causes the water contained in such cylinder to be forced up through the tubular piston-rod into the trough above, from which the cattle or stock are to drink it. By the double-flared or bevelled edge or periphery of the plunger or follower its effectiveness is much increased. By means of the scale-balancing bearings to the platform all side motions thereto are guarded against, and thus its friction against the sides of the surrounding framework, or that in which it is hung, avoided.

What I claim as new, and desire to secure by Letters Patent, is—

The platform A, bearing the rocker-beam G, arranged in relation with the oscillating cylinder as herein set forth for the purpose specified.

E. C. KELLOGG.

Witnesses:

GEORGE BARNARD,  
E. O. HOVEY.