

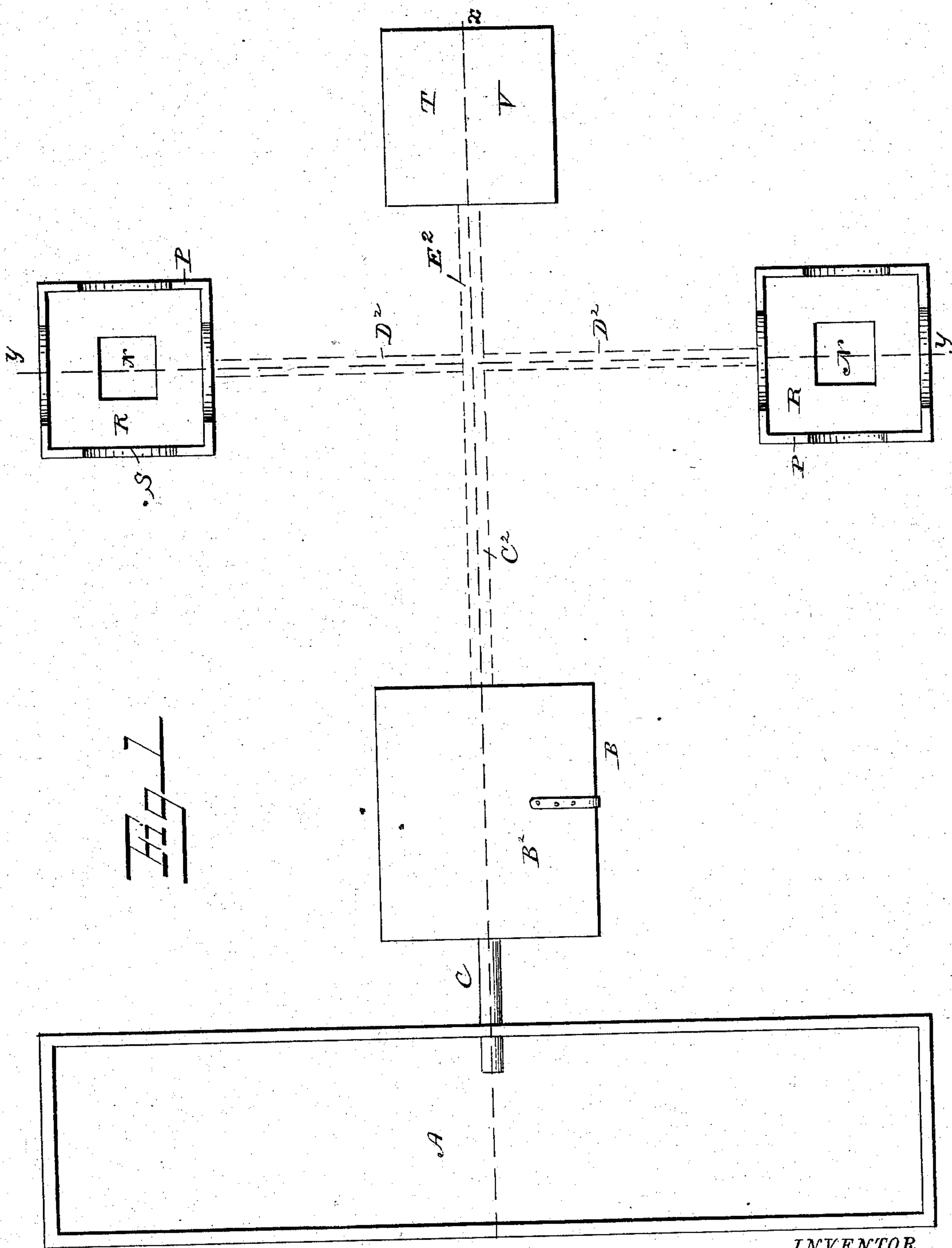
(No Model.)

2 Sheets—Sheet 1.

W. E. YOUNG.
STOCK WATERING DEVICE.

No. 282,146.

Patented July 31, 1883.



WITNESSES

F. L. Ouraud
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INVENTOR

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(No Model.)

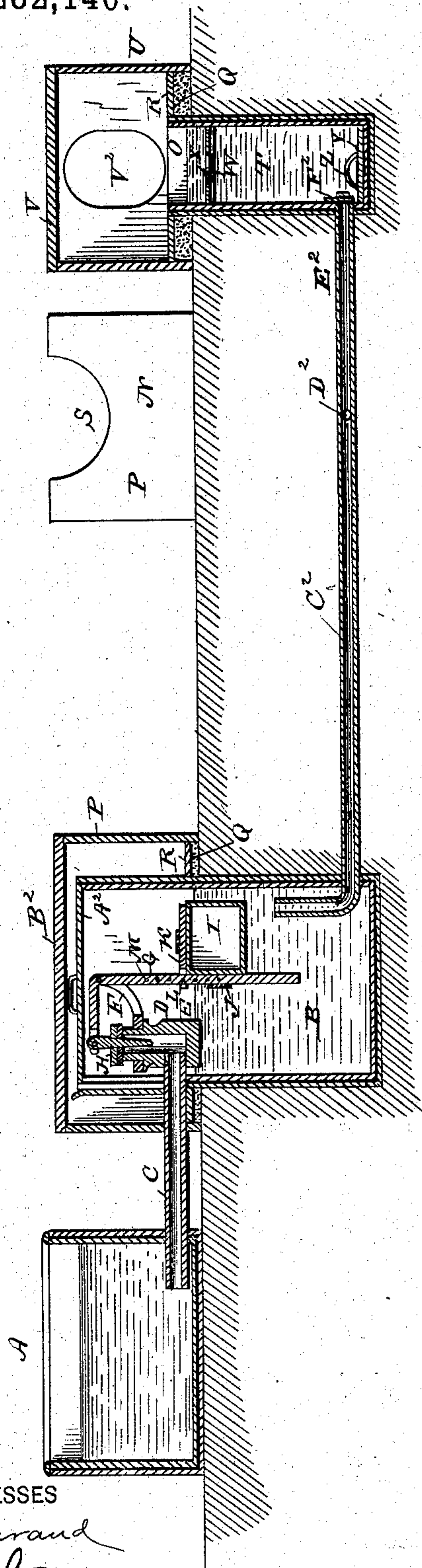
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Fig. 2.



UNITED STATES PATENT OFFICE.

WILLIAM E. YOUNG, OF CLAYTON, ILLINOIS.

STOCK-WATERING DEVICE.

SPECIFICATION forming part of Letters Patent No. 282,146, dated July 31, 1883.

Application filed February 24, 1883. (No model.)

To all whom it may concern:

Be it known that I, W. E. YOUNG, a citizen of the United States, residing at Clayton, in the county of Adams and State of Illinois, have
5 invented a new and useful Stock-Watering Device, of which the following is a specification, reference being had to the accompanying drawings.

This invention relates to an improved device
10 for watering stock from wells, fountains, or other sources of supply, and it has for its object to provide a simple, convenient, and efficient self-acting device for this purpose, the operation and construction of which will be
15 hereinafter fully described, and particularly pointed out in the claims.

In the drawings hereto annexed, Figure 1 is a plan view of my improved stock-watering device. Fig. 2 is a vertical sectional view on
20 the line *xx* in Fig. 1, and Fig. 3 is a vertical sectional view on the line *yy* in Fig. 1.

The same letters refer to the same parts in all the figures.

In the drawings, A designates the water-supply, which may be of any suitable description,
25 and which in this case is represented as a tank, to which water may be pumped or fed by means of a wind-engine, or in any suitable manner.

B is a receiving-tank, which is set in the
30 ground to any desired depth, and connected with the supply by means of a pipe, C, which may be above ground. The supply-pipe C has at its inner end a valve, D, consisting of a cylinder or body, E, open at its upper end, and
35 provided with a bracket, F, to which is pivoted a bell-crank lever, G, carrying at the end of its horizontal arm a cap, H, adapted to close the opening in the cylinder E.

I is a float having a sleeve or socket, J, and
40 a sliding forked bracket, K, by means of which it may be adjusted upon the vertical arm of lever G by means of a pin, L, passing through the forked bracket K and through one of a series of perforations, M, in the arm of lever K.

45 N N are stock-watering tanks, which are set in the ground in any place or places desired, and at any desired distance from the receiving-tank. The latter, as well as the watering-tanks, is to be constructed of two thicknesses
50 of planks or boards, with an intermediate coating of pitch, making them durable and watertight, without the water coming in contact with

the pitch. The watering-tanks, as well as the receiving-tank, should extend a short distance above the surface of the ground, as shown at
55 O in the drawings.

The tanks B and N are all surrounded with curbings P, and the spaces between said curbs and the rims O of the tanks are filled with packing Q, the object of which is to exclude
60 frost, and which is kept in place by false bottoms R, placed within the curbs, as shown. The curbs P are all of suitable height, and those of the drinking-tanks are cut away at their upper edges, as shown at S, so as to per-
65 mit all kinds of stock, except hogs, to have access to said tanks. For the hogs I provide a special tank, T, constructed exactly like the rest, but having its curbing U provided with a top piece or cap, V, which excludes other
70 stock. The sides of the curbing U are provided with openings V², large enough to admit the hogs to the water. The tank T is also provided, near its upper end, with cross-pieces
75 W, serving to support a perforated diaphragm, X, which, while it permits the water to rise in the tank, prevents the hogs from being crowded in and drowning.

Each of the drinking-tanks N and T has a loose plate, Y, fitted in its bottom and pro-
80 vided with a loop or handle, Z, so that it may be readily lifted out by means of a hooked rod, for the purpose of clearing the tank or well of any sediment which may have settled in the
85 bottom.

For the receiving-tank B a loose cover, A², is provided. The curbing of this tank is also provided with a hinged lid, B², which may be locked or secured in any suitable way, for the purpose of excluding stock and to prevent
90 meddling by unauthorized parties.

C² is the main feed-pipe, which, leading from the receiving-tank B, is provided with branches D² E², leading to the several drinking-tanks. The feed-pipe extends some distance up into
95 the receiving-tank, so as to take the water from near the top of the latter, thus allowing the water to settle somewhat, and avoiding an excess of sediment. The end of the branch E², leading to the hog-tank T, has a leather valve,
100 F², opening into said tank, into which water may thus freely pass, while it is prevented from passing out and contaminating that in the other tanks.

The operation and advantages of my invention will be readily understood from the foregoing description, taken in connection with the drawings hereto annexed. The water
5 passes from the supply into the receiving-tank when it reaches a certain height, which may be regulated by adjusting the float I upon the lever G. The said float rises, thus operating the lever to force the cap H down against the open-
10 ing in cylinder E and closing the supply. From the receiving-tank the water passes to the drinking-tanks, and, as fast as it is lowered in the latter by stock drinking, the supply in the receiving-tank is automatically replen-
15 ished.

I claim as my invention and desire to secure by Letters Patent of the United States—

1. In a device for watering stock, the combination of the receiving-tank, a pipe connect-
20 ing the same with the supply, a cylinder upon the inner end of said supply-pipe, open at the top, and provided with a bracket to which is hinged a bell-crank lever, a cap secured upon the horizontal arm of said lever and arranged

to close the open or supply end of the cylinder, 25
and a float having a sleeve and a sliding arm or bracket, by which it is secured adjustably upon the vertical arm of the lever, substantially as set forth.

2. In a device for watering stock, the receiving and drinking tanks, set in the ground as described, and having upward-extending rims, in combination with the curbs surrounding said rims, the packing placed between the rims and curbings, and the false bottom serv- 35
ing to secure the said packing, as set forth.

3. In a device for watering stock, the combination, with the hog-watering tank, of the feed-pipe provided at its inner end with a valve opening into said tank, as set forth. 40

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

WILLIAM EDWARD YOUNG.

Witnesses:

S. N. BLACK,

JAS. M. LESTER.