

(No Model.)

D. BRIGHAM.  
HOG WATERER.

No. 422,113.

Patented Feb. 25, 1890.

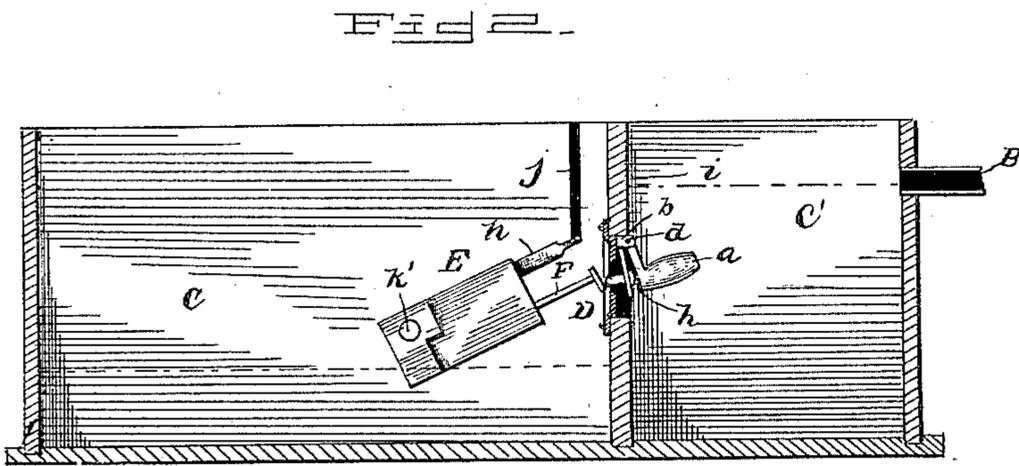
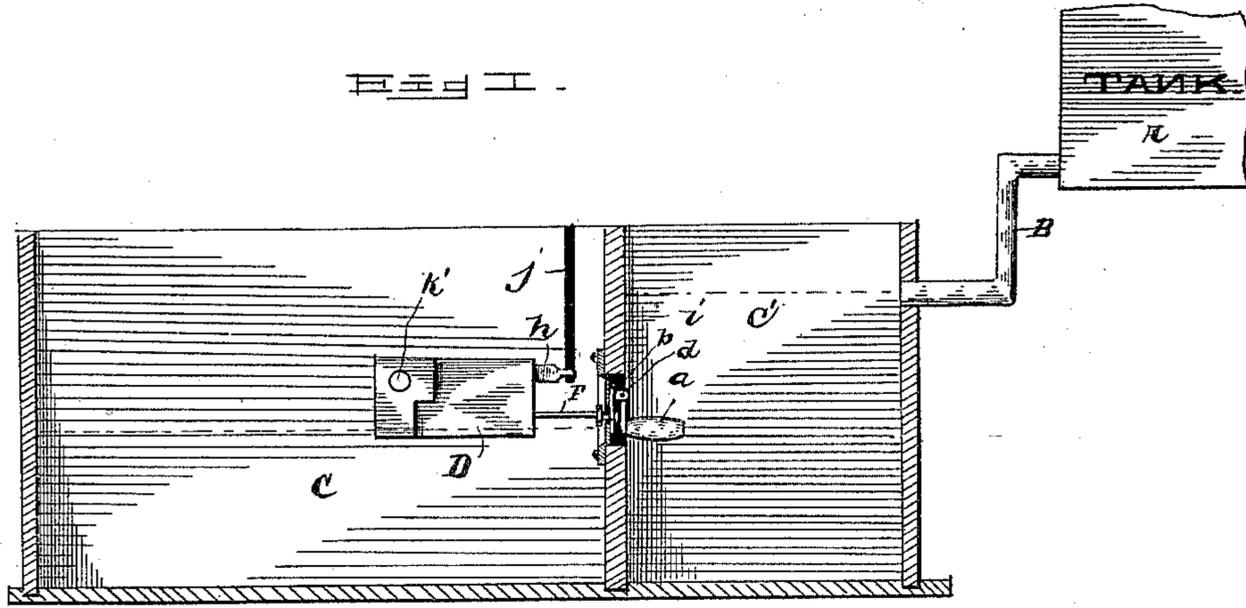


FIG 4

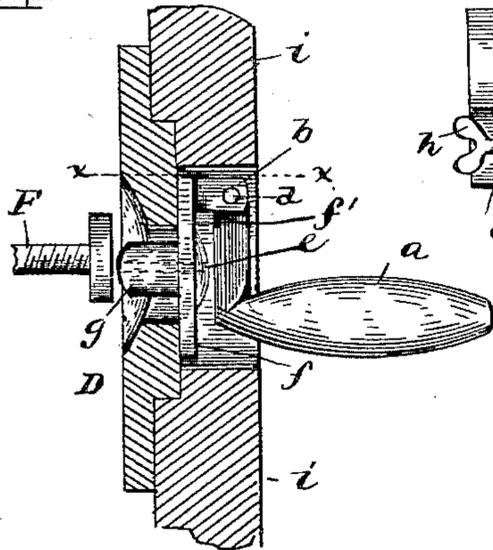
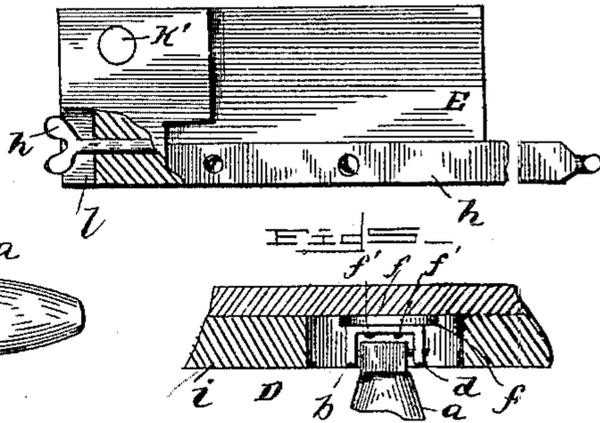


FIG 3



Witnesses

Paul W. Stevens,  
Myra Myers

Inventor  
D. Brigham  
By his Attorneys  
Myra Myers

# UNITED STATES PATENT OFFICE.

DAN BRIGHAM, OF SOUTH OMAHA, NEBRASKA.

## HOG-WATERER.

SPECIFICATION forming part of Letters Patent No. 422,113, dated February 25, 1890.

Application filed August 27, 1889. Serial No. 322,147. (No model.)

*To all whom it may concern:*

Be it known that I, DAN BRIGHAM, a citizen of the United States of America, residing at South Omaha, in the county of Douglas and State of Nebraska, have invented certain new and useful Improvements in Hog-Waterers, of which the following is a specification, reference being had therein to the accompanying drawings.

My improvement in automatic hog-waterers consists in the peculiar construction, combination, and arrangement of the parts, as hereinafter more fully described, and shown in the accompanying drawings.

Figure 1 is a side elevation partly sectional. Fig. 2 is a sectional elevation thereof. Figs. 3, 4, and 5 are views of the principal parts in detail.

In constructing my automatic hog-waterer I provide a suitable supply-tank A for reception of water. It may be made in any ordinary manner, and is connected by pipe B to the weight-chamber C'. The height of the water supplied in water-trough C is rendered approximately uniform by means of float-valve D. Float-valve D consists in part of the hinged metallic weight *a*, which is hinged to plate *b* by means of pintle *d* of apertured disk *e*, secured to leather piece *f*, suspended upon pintle-iron *f'*, and of metallic bulb *g*, having stem *h*, which latter is riveted upon disk *e*. It also consists in part of plate *b*, centrally apertured where bulb *g* projects through it, said plate being rigidly secured to wooden partition *i*. Block-weight E is secured to and pivotally supported on hangers *h*, one of which has its bearings in wall-recess *j* and one in a corresponding wall-aperture in trough C. To prevent block E from warping it has inserted, in a longitudinal aperture therein provided, the wooden piece *k'*. Thumb-screw F is disposed transversely in a female screw in block-weight E, and has rigidly secured thereto the metallic disk F, the block being recessed at *l* for reception of the finger-piece of the thumb-screw, as shown.

It will be observed that the thumb-screw can be readily adjusted in block-weight E to operate in the manner desired.

The water from supply-tank A flows through

pipe B into weight-chamber C', and thence through the open valve, as shown in Fig. 2, the metallic weight *a* being constructed to comprise sufficient weight, and so hinged as to close the valve D until the superior pressure of the block-weight in its descent, in the absence of water in trough C, overcomes it.

The water in trough C in attaining its maximum height elevates block-weight E to the position shown in Fig. 1, whereupon metallic weight *a* descends by reason of gravity and pressing upon closes the valve, thus shutting off the flow of water into the trough, and it is obvious that as the water falls in the trough weight *a* is raised and the valve opened.

Having thus fully described my invention, what I claim, and desire to secure by Letters Patent, is—

1. In a device for watering stock, the combination, with the communicating tanks separated by an apertured partition, of a valve-disk secured to a leather strip in one of said tanks and seating against the aperture, and a hinged metallic weight adapted to bear against the valve-disk on its rear side, and the float pivoted in the other tank and arranged to bear against the front of the valve, substantially as described.

2. In a device for watering stock, the combination, with the communicating tanks separated by an apertured partition, of a valve-disk secured to a leather strip in one of said tanks and seating against the aperture, and a hinged metallic weight adapted to bear against the valve-disk on its rear side, and the float pivoted in the other tank, said float provided with an adjustable thumb-screw for actuating the valve-disk, substantially as shown and described.

3. In a device for watering stock, the combination, with the communicating tanks separated by an apertured partition, of a valve-disk secured to a leather strip in one of said tanks and seating against the aperture, and a hinged metallic weight adapted to bear against the valve-disk on its rear side, and the float pivoted in the other tank, said float being pivoted in the walls of said tank and provided with an adjustable thumb-screw

having the disk on one end thereof, said disk engaging the valve-disk, substantially as described.

4. In a device for watering stock, the combination, with the communicating tanks separated by an apertured partition, of a valve-disk secured to a leather strip in one of said tanks and seating against the aperture, and a hinged metallic weight adapted to bear  
10 against the valve-disk on its rear side, and

the float pivoted in the other tank, said float provided with an adjustable thumb-screw having the disk which bears against the valve-disk, substantially as described.

In testimony whereof I affix my signature 15  
in presence of two witnesses.

DAN BRIGHAM.

Witnesses:

JAMES RUGGS,

J. M. HARBAUGH.