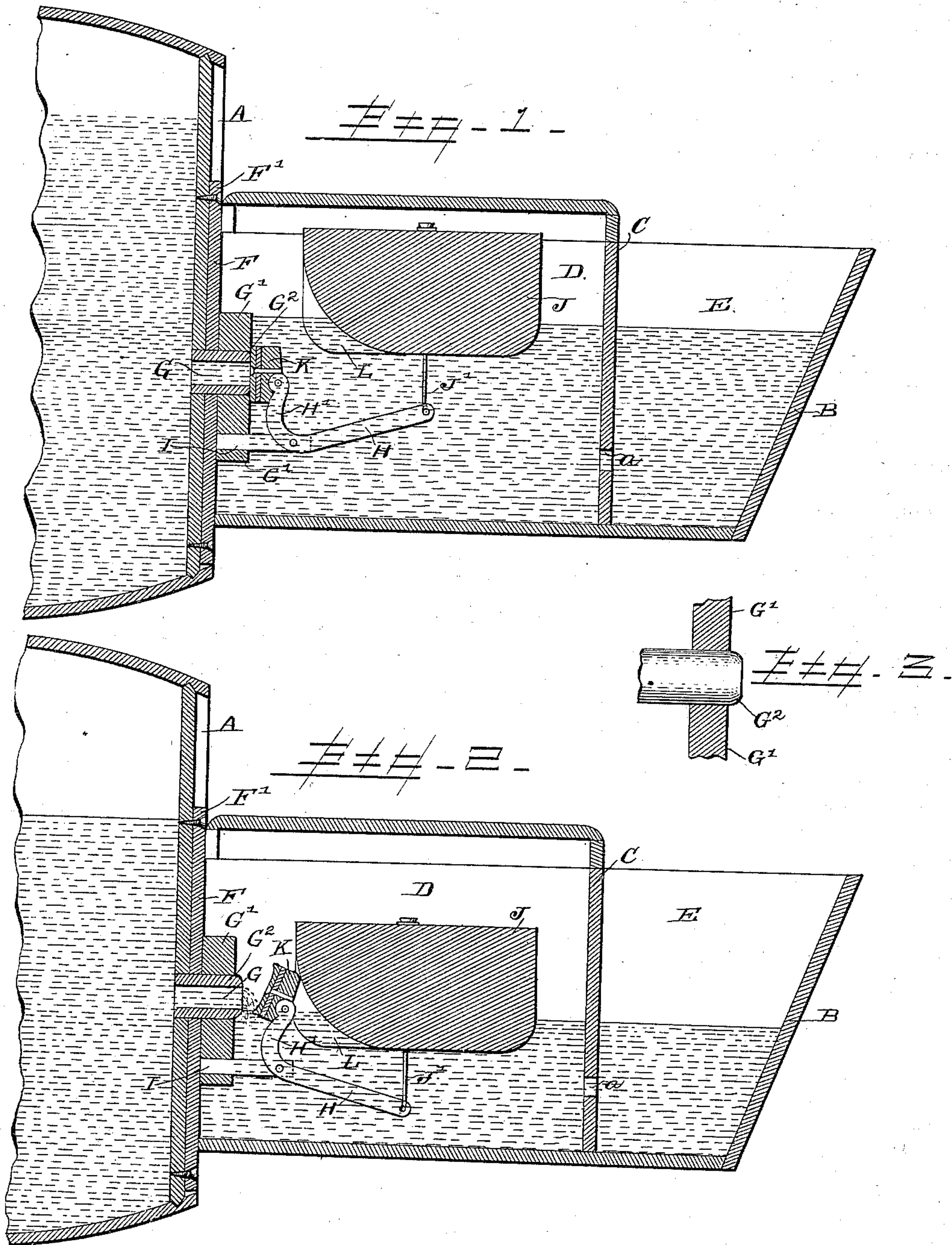


(No Model.)

H. T. MAXWELL & T. McCALL.
APPARATUS FOR WATERING STOCK.

No. 426,459.

Patented Apr. 29, 1890.



Witnesses
Albert B. Blackwood
Jas N. Blackwood

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UNITED STATES PATENT OFFICE.

HENRY T. MAXWELL AND THOMAS MCCALL, OF BLENCOE, IOWA.

APPARATUS FOR WATERING STOCK.

SPECIFICATION forming part of Letters Patent No. 426,459, dated April 29, 1890.

Application filed January 24, 1890. Serial No. 337,939. (No model.)

To all whom it may concern:

Be it known that we, HENRY T. MAXWELL and THOMAS MCCALL, citizens of the United States, residing at Blencoe, in the county of Monona and State of Iowa, have invented certain new and useful Improvements in Apparatus for Watering Stock; and we do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

This invention relates to certain new and useful improvements in apparatus for watering stock, and it relates more particularly to that class of stock-watering devices in which the water is automatically fed to the tank or drinking-trough by a float and valve acting in conjunction with each other in controlling the water-supply.

The object of the invention is to generally simplify and cheapen the construction, and at the same time render more efficient in operation this class of appliances.

To the above ends and to such others as the invention may pertain the same consists in the peculiar construction and in the novel combination, arrangement, and adaptation of parts, all as more fully hereinafter described, shown in the accompanying drawings, and then specifically defined in the appended claim.

The invention is clearly illustrated in the accompanying drawings, which, with the letters of reference marked thereon, form a part of this specification, like letters of reference indicating like parts throughout the several views, and in which drawings—

Figure 1 is a central vertical section through an apparatus constructed in accordance with our invention, in which the trough is shown as filled with water and the valve closed. Fig. 2 is a similar view, in which the valve is shown as open to admit the water to the trough. Fig. 3 is a detail view of the extreme inner end of the inlet-pipe.

Reference now being had to the details of the drawings by letter, A represents a barrel or cask, which serves as a storage-chamber for water.

B is a trough or box, which may be of any suitable form of construction and is divided by a vertical transverse partition C into two compartments D and E. The compartment D, which is designed to be provided with a suitable cover, serves as a float-chamber, while the compartment E is open at its top and constitutes the watering-trough proper, the water entering the trough through a suitable opening *a* in the partition which separates the trough from the float-chamber. The end of the float-chamber opposite the watering-trough is provided with lateral extensions F', and through holes in these extensions screws are passed in securing the chamber to the head of the cask A.

G is the inlet-pipe which connects the interior of the cask with the float-chamber, the said pipe being passed through a block G', secured to the inner face of the end wall of the float-chamber, and the extreme inner end of the pipe, which projects a short distance beyond the inner face of the block, is rounded, as shown at G².

H is a lever, which is bent at a point near one of its ends to form the vertical arm H' at right angles to the body of the lever, and is pivoted at its angle between the bifurcated arms of the bracket I, which bracket is attached to the lower portion of the block G'.

J is a float, which in the present instance we have shown as consisting of a block of wood; but any form of float adapted to the purpose may be substituted therefor. This float is attached by wires J' to the extreme outer end of the long arm of the lever H.

K is a valve-block, of rubber or other like substance. This valve-block is attached to the short arm of the lever H and is adapted when closed by the action of the float upon the lever to fit over the rounded end G² of the inlet-pipe to stop the flow of water from the cask, the face of the valve-block being concaved, so as to adapt it to fit closely over the end of the pipe.

The end of the float-block adjacent to the valve K is cut away, as shown at L, so as to form a recess within which the short arm of the lever is received when the float is lowered and the valve opened.

The operation of the device will be readily understood. When the float-chamber is

empty, the float will fall to the bottom of the chamber and the action of the float upon the long arm of the lever will open the valve, thus admitting water from the cask. As the water
5 rises within the chamber the valve will be automatically closed by the action of the lever and its connections with the float.

We are aware that heretofore it has been proposed to control the flow of the water in
10 the watering-tanks and like devices by the rise and fall of a float, and do not seek to cover such construction, broadly.

Having thus described our invention, what we claim as new, and desire to secure by Letters Patent, is—
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The combination, with the storage-cask and the chambered trough, of the float within the float-chamber of said trough and having rounded recess L upon its under face adja-

cent to the storage-cask, the inlet-pipe G, the support I on the storage-cask and extending within the float-chamber, the curved lever H, pivoted to said support and adapted to be seated in the recess L when the float is lowered, the valve-block carried by the end of the short arm of the lever, and the wire J', connected at one end to the under side of the float and at the other end pivotally connected to the end of the long arm of the lever, substantially as shown and described.

In testimony whereof we affix our signatures in presence of two witnesses.

HENRY T. MAXWELL.
THOMAS MCCALL.

Witnesses:

WM. MCFARLAND,
W. E. TEES.