E. W. PAULSON.

STOCK WATERER.

APPLICATION FILED NOV. 10, 1919.

1,372,188.

Patented Mar. 22, 1921.

2 SHEETS—SHEET 1.

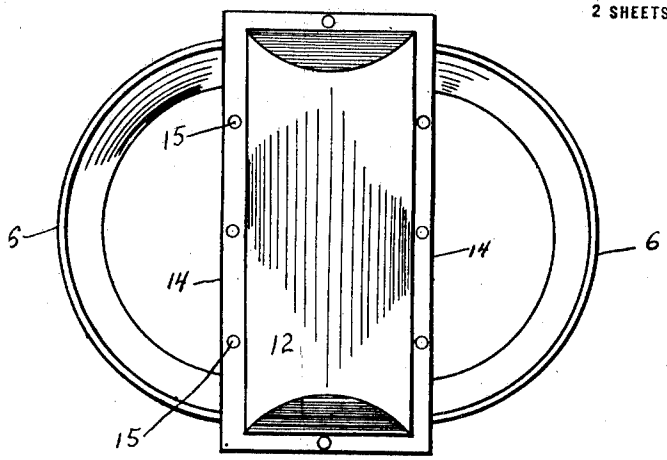


FIG. 1

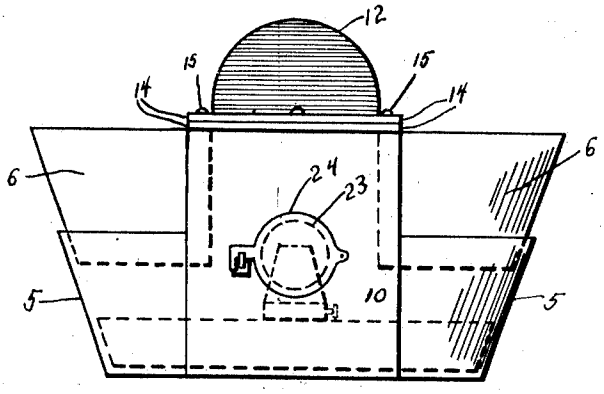


FIG. 2

INVENTOR

E. W. Paulson

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2 SHEETS—SHEET 2.

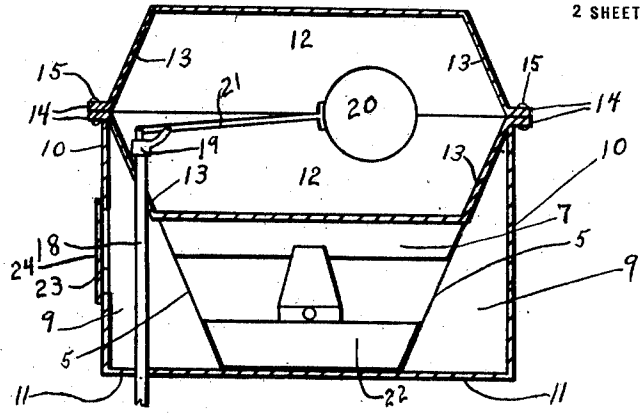


FIG. 3

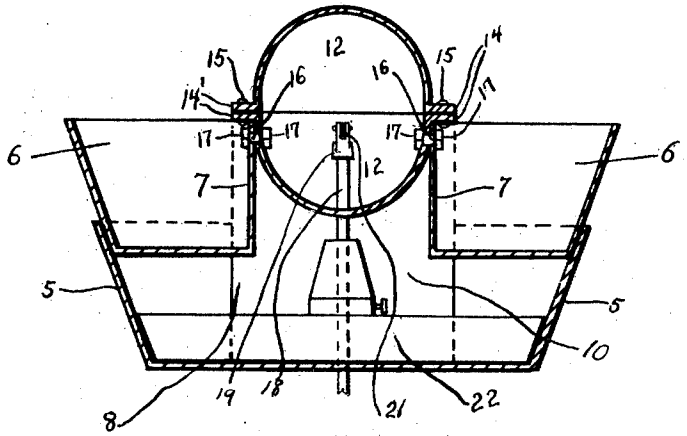


FIG. 4

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UNITED STATES PATENT OFFICE.

ERNEST W. PAULSON, OF SIOUX CITY, IOWA, ASSIGNOR OF ONE-HALF TO MILO S. VAN AUKEN, OF SIOUX CITY, IOWA.

STOCK-WATERER.

1,372,188. Specification of Letters Patent. Patented Mar. 22, 1921.

Application filed November 10, 1919. Serial No. 336,884.

To all whom it may concern:

Be it known that I, ERNEST W. PAULSON, a citizen of the United States, and a resident of Sioux City, in the county of Woodbury and State of Iowa, have invented certain new and useful Improvements in Stock-Waterers, of which the following is a specification.

This invention has for its primary object the production of an improved, simplified and inexpensive non-freezable stock-watering device.

A further object of the invention is the production of a stock-waterer embodying a base container having drinking containers supported in opposite sides thereof and between which is positioned and supported a container to supply the drinking containers, the supply container being fed from any suitable source of water pressure and controlled by a valve governed by a float within the supply container. Below the drinking and supply containers is positioned a heating device which prevents freezing of the water.

With these and other objects in view, the invention consisting in the construction, combination and novel arrangement of parts, will be fully understood from the following description, reference being had to the accompanying drawings, which form a part of this application and in which like characters of reference indicate corresponding parts throughout the several views, of which,—

Figure 1 is a plan of a device constructed in accordance with the invention;

Fig. 2 is a front elevation thereof;

Fig. 3 is a central transverse section thereof; and

Fig. 4 is a longitudinal vertical section thereof.

Referring, now, to the illustrations, 5, is a base receptacle, preferably oval shaped in general contour and having outwardly flared walls. In opposite sides of the receptacle, 5, are drinking troughs, 6, the bottom portions of which are disposed within the receptacle, the outer walls of the troughs being curved and flared to correspond with the walls of the receptacle and their adjacent walls, 7, are preferably straight and upright.

The intermediate portions of the front and rear walls of the receptacle, 5, are open as at 8 (Fig. 4) and the edges of the said walls adjacent said openings are formed with outwardly extending triangular walls, 9, the upper portions of which extend substantially the same height as the drinking troughs, 6, and the outer edges of which are upright and disposed directly below the perimeter of the troughs and the outer edges of the said walls, 9, are joined, respectively, by front and rear walls, 10, and the walls, 9 and 10, are joined with a floor, 11, formed integrally with the floor of the receptacle, 5.

Between the troughs is positioned the float chamber preferably consisting of a cylindrical casing disposed horizontally between and transversely of the troughs and divided longitudinally in halves, 12, the end walls, 13, of which are inclined at the same angle as the walls, 6, of the troughs. The meeting edges of the halves are formed with abutting flanges, 14, which are bolted or otherwise suitably secured together as at 15, and rest upon the walls, 7, of the troughs and the walls, 8, of the receptacle.

The troughs receive water from the float chamber through short pipes, 16, which extend through the walls, 12, and 7, and have nuts, 17, on the ends thereof screwed into engagement with the adjacent walls whereby the troughs and float chamber are held securely together.

The compartment, 12, is fed by an upright pipe, 18, which leads from any suitable source of water pressure and is positioned within the receptacle, 5, the upper portion thereof being extended through the bottom of the casing, 12, and provided with a suitable valve, 19, controlled by a float, 20, on an arm, 21, within the float chamber, the relation of the float and valve being so adjusted that when the level of the water is below the pipes, 16, the valve will be open; and when above the troughs, 6, the valve will be closed.

In the bottom of the receptacle, 5, is a suitable heating device preferably an oil burner, 22, which may be regulated through an opening, 23, in the front wall, 10, and normally closed by a suitable closure, 24.

Having thus described my invention, what I claim as new and desire to secure by Letters Patent of the United States, is,—

1. A stock-waterer, including an oval-shaped base receptacle having outwardly-inclined walls, drinking containers in the end portions thereof, including outer walls curved and flared outwardly to conform to

and rest against the inner sides of said first walls, the adjacent walls of the containers being straight, a water supply chamber extending across the receptacle and between the containers, and having flanges resting on the adjacent walls of the containers, and passages between the chamber and containers.

2. A stock-waterer comprising a base receptacle, oppositely disposed spaced drinking containers therein, a cylindrical casing disposed horizontally and between the containers, flanges on the casing resting upon the adjacent container walls, passages between the casing and containers, a valved inlet passage in the casing adapted to receive from a source of water pressure, a float in the casing operatively connected with the valve, and a heating device in the bottom portion of the receptacle.

3. A stock-waterer comprising a base receptacle, oppositely disposed spaced drinking containers therein, a cylindrical casing disposed horizontally and between the containers, and divided horizontally in upper and lower parts, the meeting edges of the parts being provided with abutting flanges secured together and resting on the containers, passages between the casing and containers, a valved inlet passage in the casing adapted to receive from a source of water pressure, a float in the casing operatively connected with the valve, and a heating device in the bottom portion of the receptacle.

4. A stock-waterer comprising an oval-shaped base receptacle having outwardly-inclined walls, drinking containers, in the end portions of the receptacle including outer walls shaped and flared to conform to and rest against the walls of the receptacle, the adjacent walls of the containers being straight, the front and rear intermediate portions of the receptacle walls being open from top to bottom, triangular lateral walls at opposite sides of the open portions, upright walls interconnecting the lateral walls, a water supply chamber positioned between the containers and having flanges resting upon the adjacent container walls and said upright walls, passages between the chamber and said containers, a float-controlled valved inlet in the chamber adapted to receive from a source of water pressure, and a heating device in the bottom portion of the receptacle.

In testimony whereof I have hereunto set my hand this 10th day of Sept., 1919.

ERNEST W. PAULSON.