No. 838,246. PATENTED DEC. 11, 1906.

J. FALK.

STOCK FOUNTAIN.

APPLICATION FILED JAN. 22, 1906.

2 SHEETS—SHEET 1.

Fig. 1.

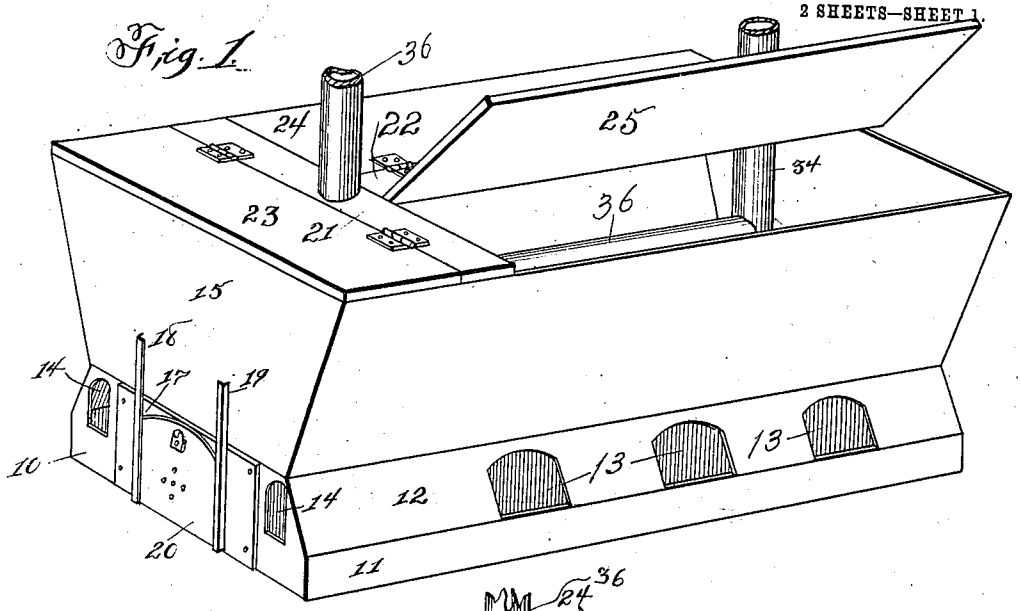


Fig. 2.

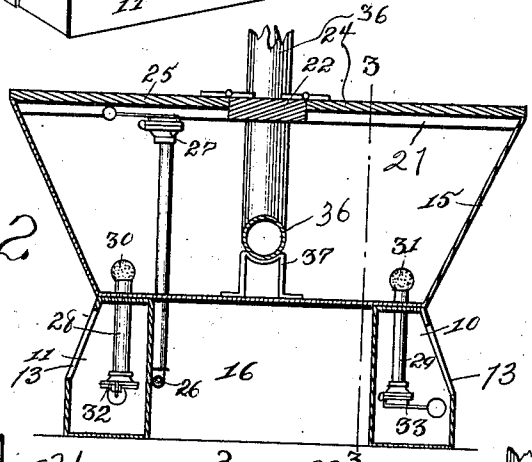
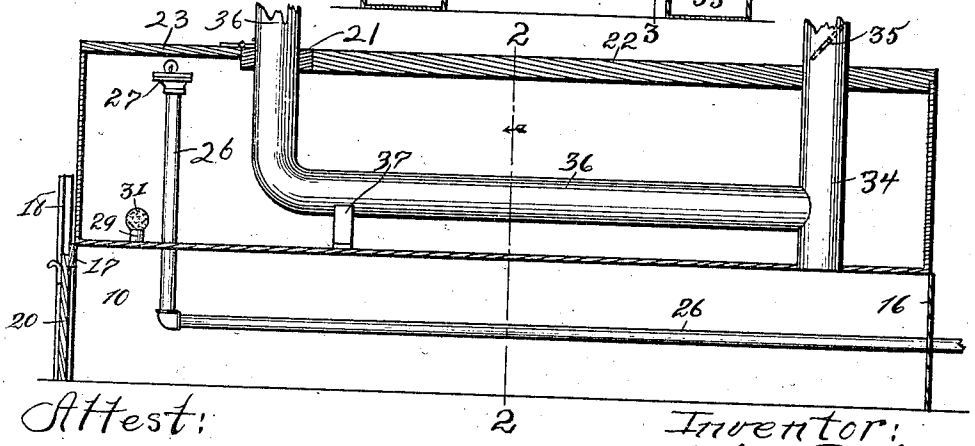


Fig. 3.



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Inventor:

John Falk

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2 SHEETS—SHEET 2.

Fig. 4.

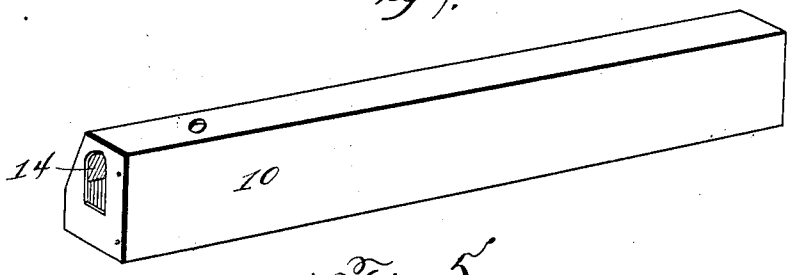


Fig. 5.

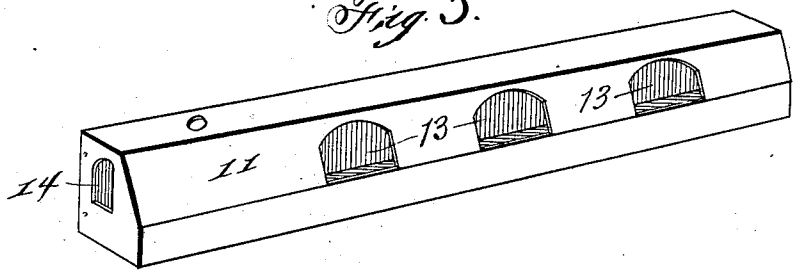


Fig. 6.

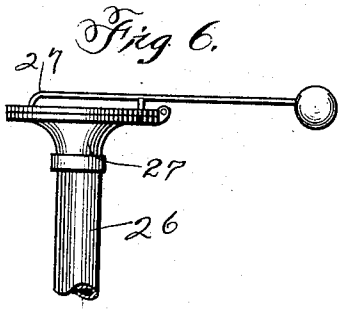
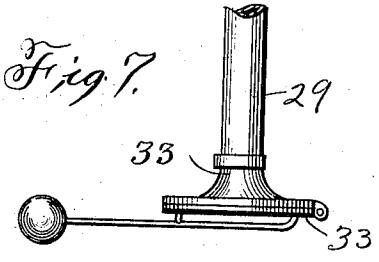


Fig. 7.



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N. W. Winters

Inventor:

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By J. L. Sweet Atty

UNITED STATES PATENT OFFICE.

JOHN FALK, OF DEWITT, IOWA.

STOCK-FOUNTAIN.

No. 838,246. Specification of Letters Patent. Patented Dec. 11, 1906.

Application filed January 22, 1906. Serial No. 297,913.

To all whom it may concern:

Be it known that I, JOHN FALK, a citizen of the United States of America, and a resident of Dewitt, Clinton county, Iowa, have invented a new and useful Stock-Fountain, of which the following is a specification.

The object of this invention is to provide improved means for watering stock.

A further object of this invention is to provide improved means for watering various kinds of stock of various sizes.

A further object of this invention is to provide improved means for supplying water to various parts of a stock-fountain.

A further object of this invention is to provide an improved construction for stock-fountains.

A further object of this invention is to provide improved means for heating drinking-water in a stock-fountain.

My invention consists in the construction, arrangement, and combination of elements hereinafter set forth, pointed out in my claims, and illustrated by the accompanying drawings, in which—

Figure 1 is a perspective of the complete device. Fig. 2 is a cross-section on the indicated line 2 2 of Fig. 3. Fig. 3 is a vertical section on the indicated line 3 3 of Fig. 2. Figs. 4 and 5 are perspectives of parts of the device detached from the remainder. Figs. 6 and 7 are elevations illustrating valves employed in my improved device.

In the construction of the device as shown the numerals 10 11 designate drinking-troughs, preferably made of sheet metal of generally oblong form and provided with partially-inclined front walls 12, formed with openings 13 and with openings 14 in the end walls, through which openings access may be had by small animals, such as swine and sheep and poultry, for the purpose of drinking from said troughs. The troughs 10 11 are arranged parallel with each other and spaced apart, and a drinking-tank 15, also preferably made of sheet metal, is mounted on said troughs and covers the space between them. The end walls of the tank 15 are vertical, and the side walls of said tank flare outwardly and upwardly. A back plate 16 is fixed at its end margins to the rear ends of the troughs 10 11 and at its upper margin to the rear end wall of the tank 15 and closes the rear opening from the space between the troughs. An apertured front frame 17 is fixed to the front ends of the troughs 10 11, and tank 15 and is provided with vertical guides 18 19, parallel with each other on opposite sides of the front end of the space between the troughs. A front plate or door 20, provided with a hook for lifting it and ports for draft, is mounted slidingly in the vertical guides 18 19 and normally closes, except for the draft-ports, the front end of the space between the troughs. A cover-frame, composed of a cross-bar 21 and a longitudinal center bar 22, is mounted on the tank 15. A door or cover 23 is hinged to the cross-bar 21 and covers the forward portion of the tank 15, while two doors 24 25 are hinged to the center bar 22 and cover the remainder of the tank. The covers or doors 23, 24, or 25 may be opened to provide access for large animals, such as cattle and horses, for the purpose of drinking from said tank. A supply-pipe 26 for water leads from a source of supply, (not shown,) extends through the back plate 16, and forward in the space between the troughs 10 11 nearly to the front plate, and thence rises through the bottom of the tank 15 and terminates with a float-controlled valve 27 within said tank. Pipes 28 29 are mounted vertically through the bottom of the tank 15 and communicate at either end with the tank and troughs 10 or 11. Strainers 30 31 are mounted on the end portions of the pipes 28 29 within the tank 15, and the discharge of water from the lower end portions of said pipes is controlled by float-valves 32 33 within the troughs. A smoke-flue 34 is mounted vertically through the rear portions of the bottom of the tank 15 and the center bar 22 and extends above the tank-cover. A damper 35 is mounted in the upper portion of the smoke-flue 34 above the tank-cover. A branch flue 36 is mounted within the tank 15 and communicates at its initial end with the lower portion of the smoke-flue 34. The branch flue 36 extends forward from the flue 34, is supported on a bracket 37, resting on the bottom of the tank 15, is bent upward, and extends out of the tank through the cross-bar 21.

In practical use water is supplied to the tank 15 through the pipe 26 under the automatic control of the valve 27 and flows from said tank into the troughs 10 11 under the automatic control of the valves 32 33. The space between the troughs 10 11 and beneath the tank 15 serves as a fire-box or furnace and fire may be laid therein, preferably near to front plate 20. Heat radiated from the

fire-box tends to raise the temperature of water in the tank and troughs, and the smoke and part of the heat passing from the fire-box through the flue 34 (and through the branch flue 36 when the first flue is closed by the damper 35) tends to further raise the temperature of water in the tank.

I claim as my invention—

1. The stock-fountain composed of parallel troughs spaced apart, a tank on said troughs, means for closing the ends of the space between said troughs, and a smoke-flue leading through said tank.

2. The stock-fountain, comprising parallel troughs spaced apart, a tank on said troughs, closures for the space between said troughs, a smoke-flue leading from the space between said troughs through said tank, a valve-controlled supply-pipe entering said tank, and valve-controlled pipes communicating between the tank and troughs.

3. A stock-fountain comprising troughs arranged parallel with each other and spaced apart and formed with apertures, a tank on said troughs, hinged covers on said tank, a fire-box formed beneath said tank and between said troughs, a flue leading from said fire-box through said tank, a supply-pipe leading into said tank and pipes leading from said tank into said troughs.

Signed by me at Dewitt, Iowa, this 10th day of January, 1906.

JOHN FALK.

Witnesses:
H. W. SMITH,
A. J. SMITH.