July 3, 1923. 1,460,561

C. N. PETERSON

HOG OILER

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Fig. 1.

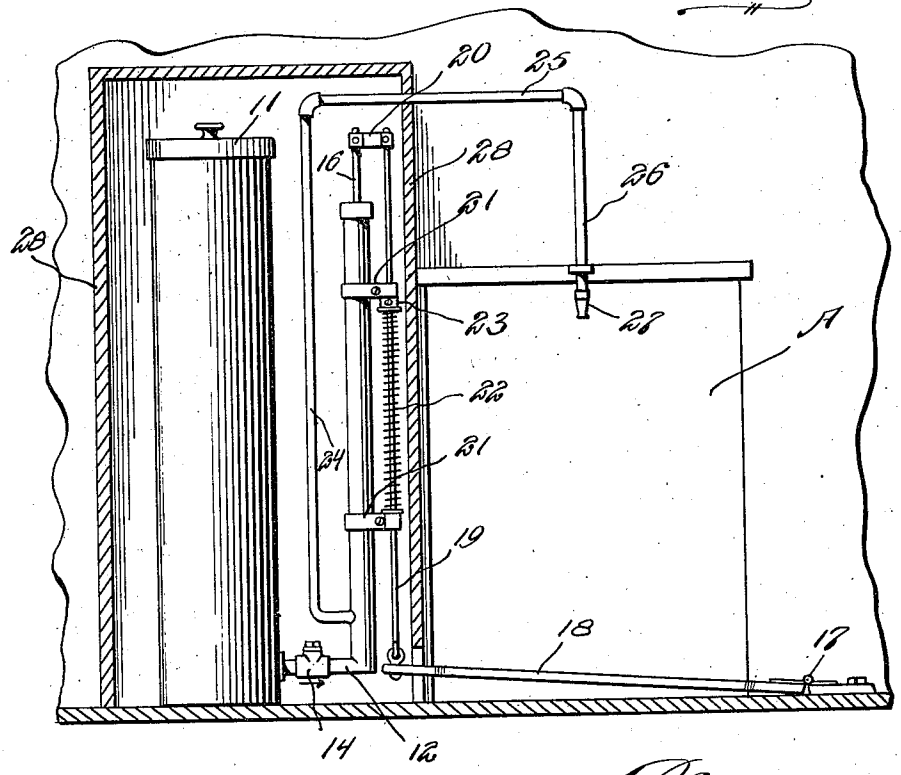
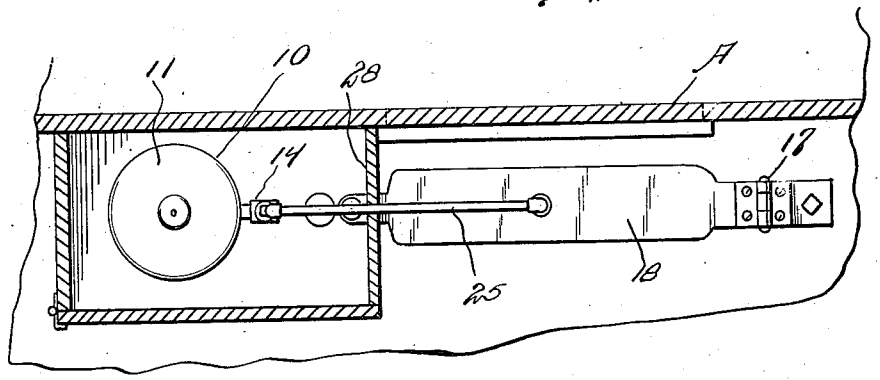


Fig. 2.



C. N. Peterson,
INVENTOR

BY Victor J. Evans
ATTORNEY

J. L. Fox,

WITNESSES:

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Fig. 3.

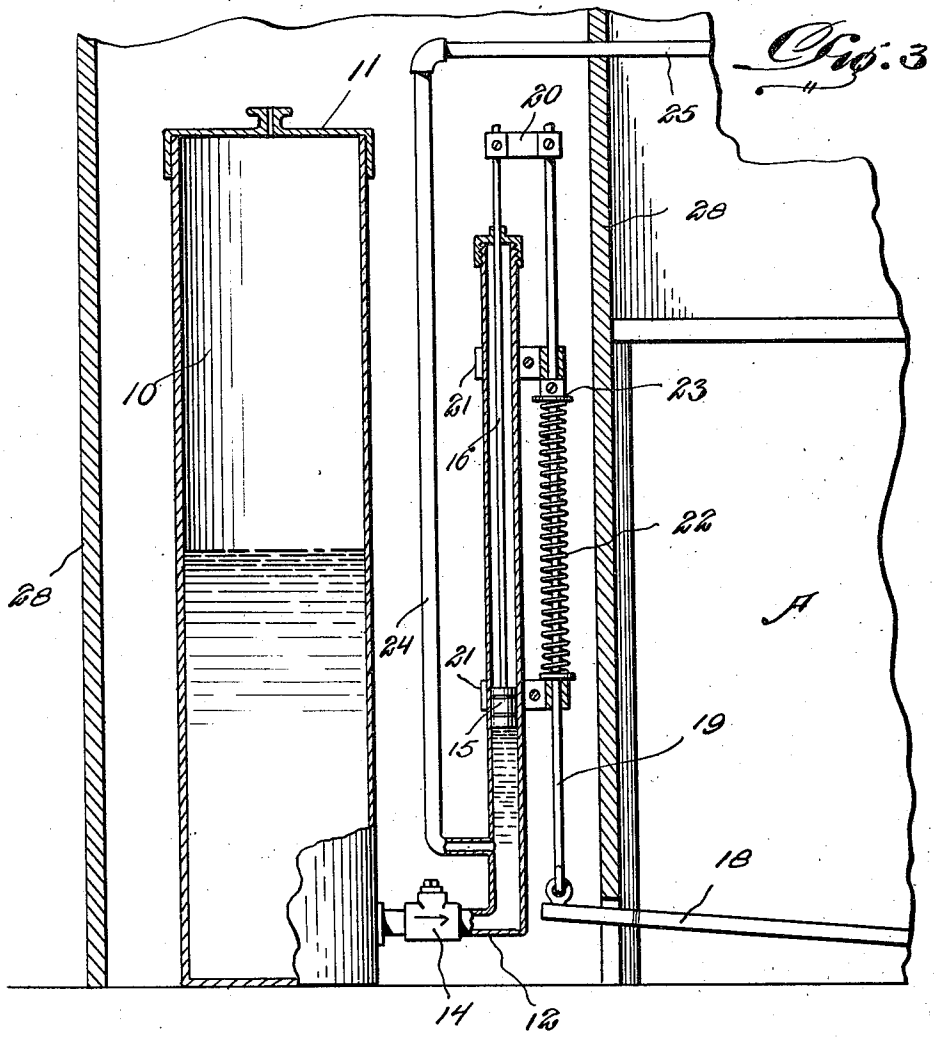
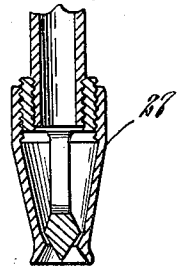


Fig. 4.



F. L. Fox,

WITNESSES:

C. N. Peterson

INVENTOR

BY Victor J. Evans.

ATTORNEY

Patented July 3, 1923. 1,460,561

UNITED STATES PATENT OFFICE.

CLARENCE N. PETERSON, OF POLK, NEBRASKA.

HOG OILER.

Application filed October 11, 1921. Serial No. 506,958.

To all whom it may concern:

Be it known that I, CLARENCE N. PETERSON, a citizen of the United States, residing at Polk, in the county of Polk and State of Nebraska, have invented new and useful Improvements in Hog Oilers, and of which the following is a specification.

This invention relates to devices for the care and treatment of live stock and has for its object the provision of a device adapted for location within the door-way of a hog house whereby the hogs will in passing into and out of the door-way be automatically sprayed with a suitable oil or chemical solution of the proper kind such as is found advantageous especially at certain seasons.

An important object is the provision of a device of this character in which the operation is entirely automatic, that is in which the spraying device is actuated whenever a hog steps upon a treadle located in the door-way.

An additional object is the provision of a device of this character which will be simple and inexpensive in manufacture and installation, highly efficient in use, economical in the use of spraying solution, efficient in service durable and a general improvement in the art.

With the above and other objects and advantages in view, the invention consists in the details of construction to be hereinafter more fully described and claimed, and illustrated in the accompanying drawings in which,

Figure 1 is a side elevation of my device in position within the door-way of a hog house,

Figure 2 is a plan view of the device,

Figure 3 is an enlarged longitudinal sectional view showing the parts mechanism,

Figure 4 is a detail sectional view taken through the spray nozzle.

Referring more particularly to the drawings the letter A designates the door-way of a hog house, shed or other places where the animals are kept and it is within this door way that my device is located. In carrying out my invention I provide a tank 10 of any suitable capacity and of any preferred material which is provided at its top with a conventional filling opening normally closed by a plug or cap 11. Leading laterally from the lower portion of this tank is a pipe 12 which is extended upwardly in spaced parallel relation to the tank and which terminates below the top of the latter. Located within this pipe adjacent its juncture with the tank is a valve seat 13 normally closed by a ball valve 14, and the upper portion of this pipe constitutes a pump cylinder. Movable within the upper portion of the pipe is a piston 15 carried by a piston rod 16 which extends upwardly beyond the top of the pipe 12.

Hinged at 17 upon the floor or upon a suitable base for my device, at a point spaced considerably away from the tank 10 is a treadle 18 which has its free end pivotally carrying an upwardly extending rod 19 which has its upper end connected with the projecting upper end of the piston rod 16 by means of a cross connection 20. Suitable guides 21 are secured upon the pipe 12 and provided with eyes or loops for guiding the rod 19 in its movement as will be clearly seen. The numeral 22 designates a coil spring which is engaged against the lower one of the guides 21 and which has its upper end engaged by a washer or collar 23 on the rod 19, the function of this spring being to hold the treadle 18 and rod 19 normally elevated so that the piston 15 will likewise be elevated.

Leading into the lower portion of the pipe 12 between the valve seat therein and the lowermost position of the piston is a small pipe 24 which extends upwardly between the pipe 12 and the tank and which has its upper end extended laterally as shown at 25 with its terminal depending as shown at 26 and carrying a spray nozzle 27 located above substantially the center of the treadle 18. It may also be preferable to provide a suitable boxing or casing 28 which encloses the tank and the adjacent parts as shown so that they cannot be injured by the hogs.

Assuming that the device is constructed and assembled as above described it should be placed within a hog house or near the same in such a way that the treadle 18 will be right in the door way so that hogs passing through and out of the house must step upon the treadle. Initially, the treadle is of course in its elevated position owing to the spring 22 and the lower end of the pipe 12 is full of oil or any solution which might be placed within the tank. When a hog steps upon the treadle 18 and depresses the same it will be apparent that the

piston 15 will be moved downwardly and this will of course force the liquid within the lower part of the pipe 12 up into and through the small pipe 24 so that the liquid will be discharged through the spray nozzle 27 down onto the hog. It will be observed that the valve 14 operates to prevent the liquid from being forced back into the tank. When the hog steps off of the pedal and the same returns to elevated position the piston 15 will of course move upwardly and draw in another charge of liquid through the valve opening 14. In this way it will be seen that the action is entirely automatic and is controlled by the stepping of the hog upon the treadle. It is to be noted that all the hogs are certain to be treated or sprayed with whatever liquid is desired owing to the fact that they cannot avoid stepping upon the treadle member.

While I have shown and described the preferred embodiment of the invention, it is of course to be understood that I reserve the right to make such changes in the form, construction and arrangement of parts as will not depart from the spirit of the invention or the scope of the subjoined claims.

Having thus described my invention I claim:

1. A hog treating device comprising a tank, a pipe communicating with the lower portion thereof and extending upwardly whereby to constitute a pump cylinder, an outwardly opening check valve at the juncture of said pipe with the tank, a piston removably mounted within the pipe and having a piston rod extending above the end of the latter, a treadle hinged within the door-way of a hog house, a rod pivotally connected with the free end of the treadle and extending upwardly above the end of said pipe and connected with said piston rod, and a spring normally holding said treadle elevated and a discharge pipe communicating with said first named pipe beyond the check valve therein and extending upwardly with its upper end laterally extended and then extended downwardly and terminating in a discharge nozzle located above said treadle.

2. A hog oiler comprising a tank having a bottom outlet, a pipe leading from said outlet and presenting a pair of branches, one of which provides a spraying element and the other constituting an oil reservoir, a check valve in the said outlet, guides carried by said oil reservoir, a treadle, a U-shaped member having one element operating within the oil reservoir as a piston and the other element movable thru the said guides and having attachment to the said treadle, and a spring encircling the said other element between the said guides and tensioned to normally hold the U-shaped member at an elevation.

In testimony whereof I affix my signature.

CLARENCE N. PETERSON.