Dec. 18, 1923. 1,478,178

N. M. DOTY

AUTOMATIC HOG OILER

Filed Dec. 15, 1922 2 Sheets-Sheet 1

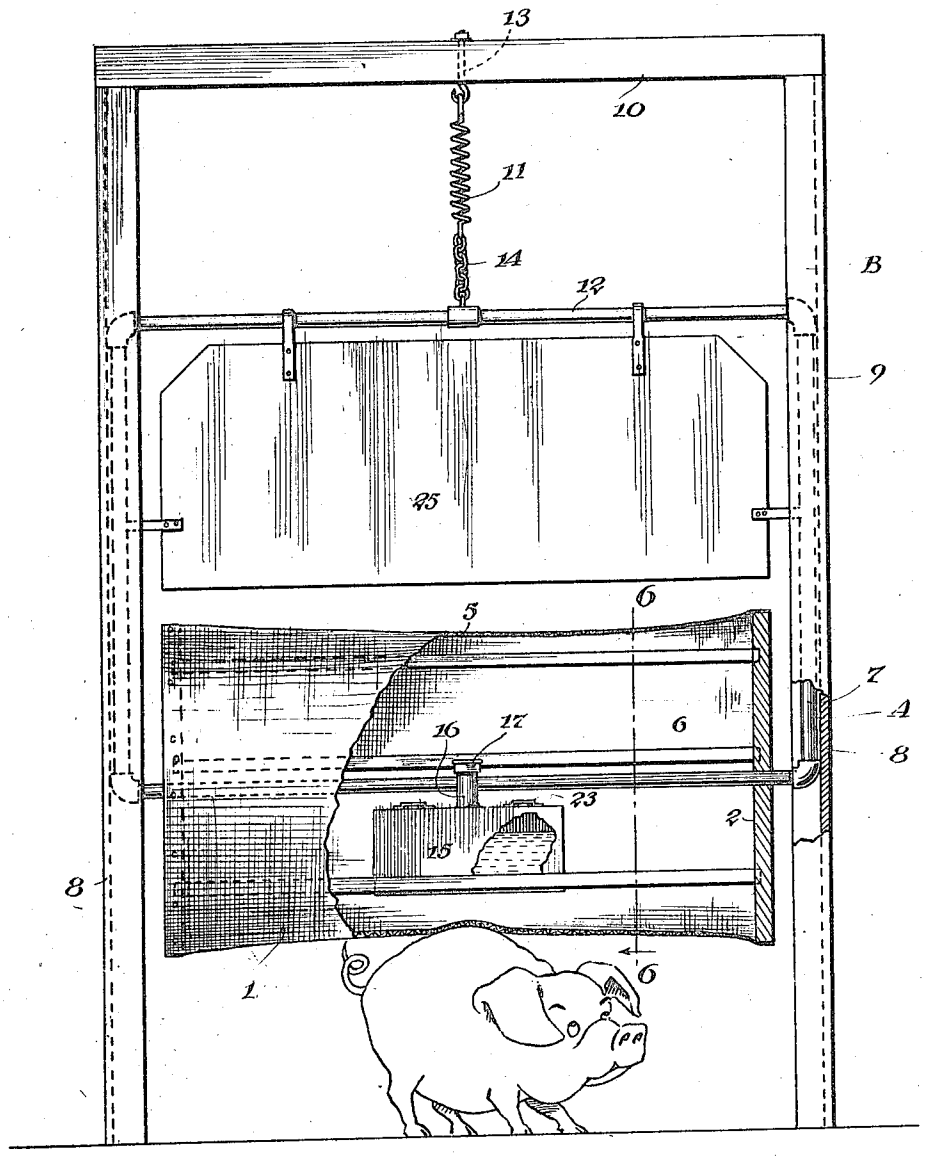


Fig. 1.

Inventor

NICK M. DOTY.

By

Attorney

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Fig. 2.

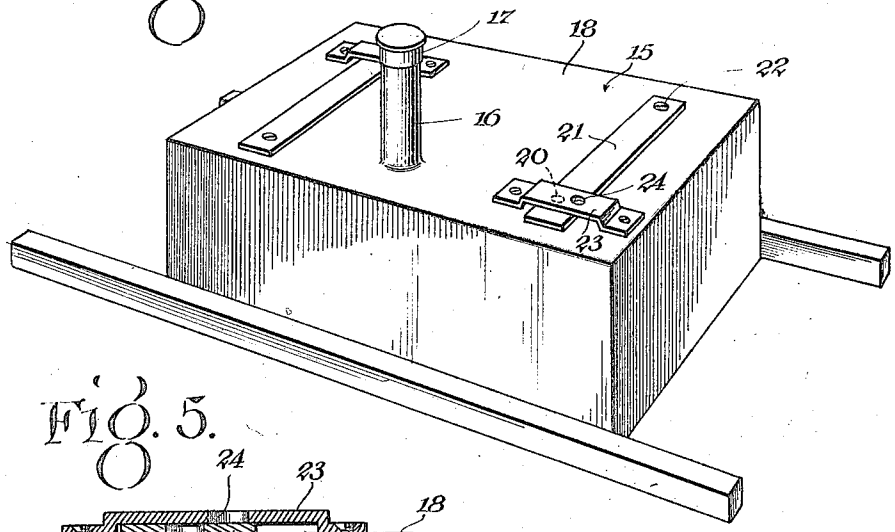


Fig. 5.

Fig. 3.

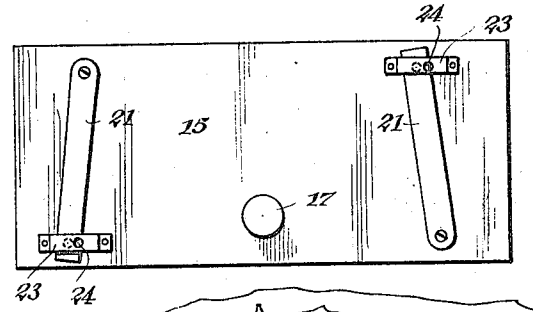
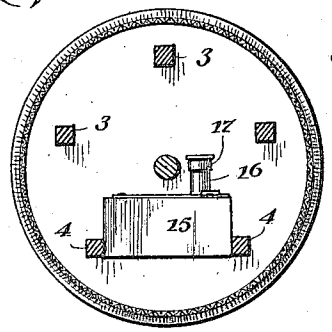


Fig. 6.



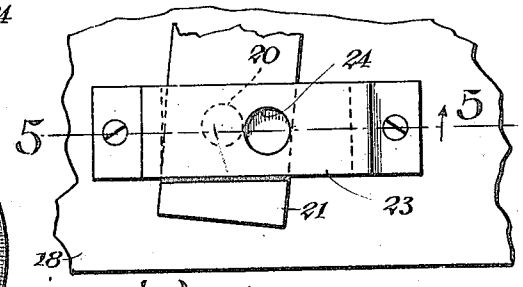


Fig. 4.

Inventor

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By John P. Dodge

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Patented Dec. 18, 1923. 1,478,178

UNITED STATES PATENT OFFICE.

NICK M. DOTY, OF ALCESTER, SOUTH DAKOTA.

AUTOMATIC HOG OILER.

Application filed December 15, 1922. Serial No. 607,137.

To all whom it may concern:

Be it known that I, NICK M. DOTY, a citizen of the United States, residing at Alcester, in the county of Union and State of South Dakota, have invented certain new and useful Improvements in Automatic Hog Oilers, of which the following is a specification.

This invention relates to new and useful improvements in automatic hog oilers and more especially to certain improvements made in my machine for which a patent was granted June 3, 1919, Number 1,305,965.

One object of my present invention consists in mounting the oil tank inside of the oiling or disinfecting cylinder instead of exteriorly of and above the same.

A further object of my invention is to provide the oiling cylinder with valve openings controlled by suitable valves through which the oil is discharged when the oiling or disinfecting cylinder is rotated.

With the foregoing and other objects in view that will appear as the nature of my invention is better understood, the same consists in the novel features of construction, combination and arrangement of parts illustrated in the drawings and more particularly pointed out in the appended claims.

In the accompanying drawings, which are for illustrative purposes only and are therefore not drawn to scale:—

Figure 1 is a front elevation, partly in section, of an oiling and disinfecting machine for hogs, embodying my present improvements.

Figure 2 is a detail perspective view of the oil tank and associated parts, shown on an enlarged scale.

Figure 3 is a plan view of the oil tank.

Figure 4 is a fragmentary plan view of one corner of the tank, showing more especially the valve opening and free end of the valve which controls said opening.

Figure 5 is a vertical longitudinal section taken on line 5—5 of Figure 4, and

Figure 6 is a vertical transverse section taken on line 6—6 of Figure 1.

Referring to the drawings for a more particular description of my invention and in which drawings like parts are designated by like reference characters throughout the several views, the device comprises the oiling or disinfecting cylinder 1, consisting of the disc shaped end walls or members 2 connected together by the cross bars 3 and 4 and the flexible body 5 of cloth or other absorbent material.

The cylinder 1 above mentioned is revolubly mounted on the lower horizontal member 6 of the substantially rectangular frame A, whose vertical or end members 7 are slidably mounted in the longitudinal grooves 8 formed in the inner faces of the vertical members 9 of the upright frame B, the upper ends of which are connected together by the top cross bar 10.

The cylinder 1 is yieldably and adjustably supported in position in the frame B by the coil spring 11 connected at its lower end to the upper horizontal member 12 of the frame A and at its upper end to the supporting hook 13 secured to and depending from the top cross bar 10 of said frame. The chain 14 is for the purpose of adjusting the position of the oiling cylinder with relation to the height of the hogs.

My device further comprises a rectangular oiling tank 15 which is mounted and supported between the cross bars 4 inside of the oiling or disinfecting cylinder 1 and preferably at a point centrally of the length of the latter. The tank 15 is provided with the upright filling spout 16 and cap 17 and also in its top wall 18 adjacent diagonally opposite corners with discharge openings 19 which are adapted to partially or completely register with corresponding transverse openings 20 formed in the free end of the flat valve bars 21, pivoted, as at 22, to diagonally opposite corners of the oil tank top. The free ends of the valve bars slide or work under the keeper plates 23 which are suitably fastened to the top of the oil tank and are provided with central transverse openings 24 adapted to register with the openings 20 in the valve bars 21 and the discharge openings 19 in the top of the oil tank. It will be understood that the free ends of the valve bars 21 may be adjusted to cause the valve openings 20 to partially or completely register with the openings in the top of the oil tank and those in the keeper plates 23, depending on the quantity of oil desired to be discharged or ejected from the oil tank upon each revolution of the oiling or disinfecting cylinders.

In practice, as the hog passes under the cylinder 1 the latter is rotated which causes a certain amount of oil or disinfectant to be discharged or ejected from the oil tank and which soaks through or saturates the cloth

body portion of the cylinder 1 which swabs or applies the same to the back of the hog.

The machine is placed in a gate or doorway properly disposed in relation to the ground or floor in order that the hog can readily pass under the rotating cylinder.

A plate 25 is arranged above the cylinder 1 and supported by the frame A, which prevents the hog from jumping over the cylinder and upon which may be displayed suitable advertising matter.

From the foregoing description taken in connection with the drawing, it is thought that the construction, operation and advantages of this invention will be readily understood without requiring a more extended explanation.

Various changes in the form, proportions and minor details of construction may be resorted to without departing from the principles or sacrificing any of the advantages of this invention as defined in the appended claims.

Having described my invention, what I claim as new and desire to secure by Letters Patent, is:—

1. A machine of the character specified comprising a rotatable oiling or disinfecting cylinder having a body of cloth or other absorbent material, a supply tank for the oil or disinfectant arranged within and rotatable with said cylinder, said tank provided in its top with discharge openings and valve bars pivoted at diagonally opposite corners of the tank top and provided in their free ends with transverse valve openings adapted to partially or completely register with the discharge openings of the tank.

2. A machine of the character specified comprising a rotatable oiling or disinfecting cylinder having a body of cloth or other absorbent material, a supply tank for the oil or disinfectant arranged within and rotatable with said cylinder, said tank provided in its top with discharge openings and valve bars pivoted at diagonally opposite corners of the tank top and provided in their free ends with transverse valve openings adapted to partially or completely register with the discharge openings of the tank and keeper plates secured to the top of the oil tank adjacent diagonally opposite corners of the latter for the free ends of valve bars said keeper plates having transverse openings adapted to register with those on the valve bars and tank top.

In testimony whereof I affix my signature.

NICK M. DOTY.