July 17, 1928. 1,677,560

A. J. KOERNER

HOG OILING DEVICE

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Fig. 1.

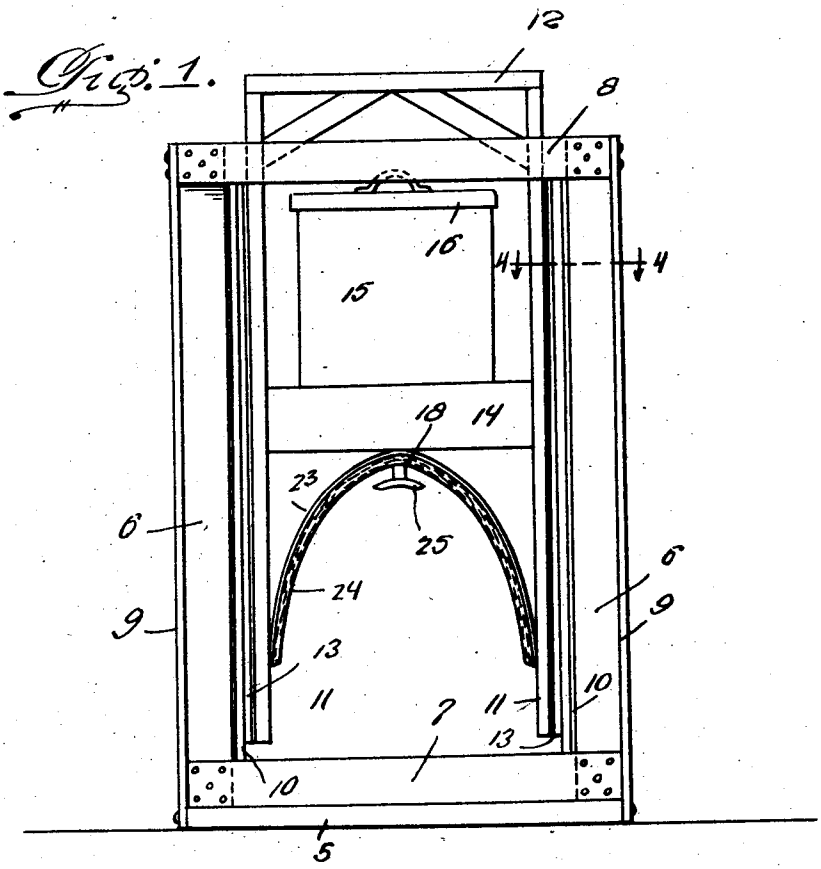
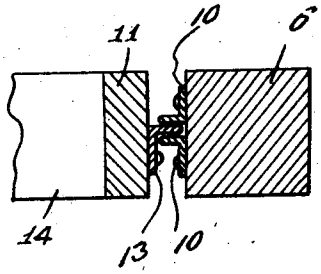


Fig. 4.



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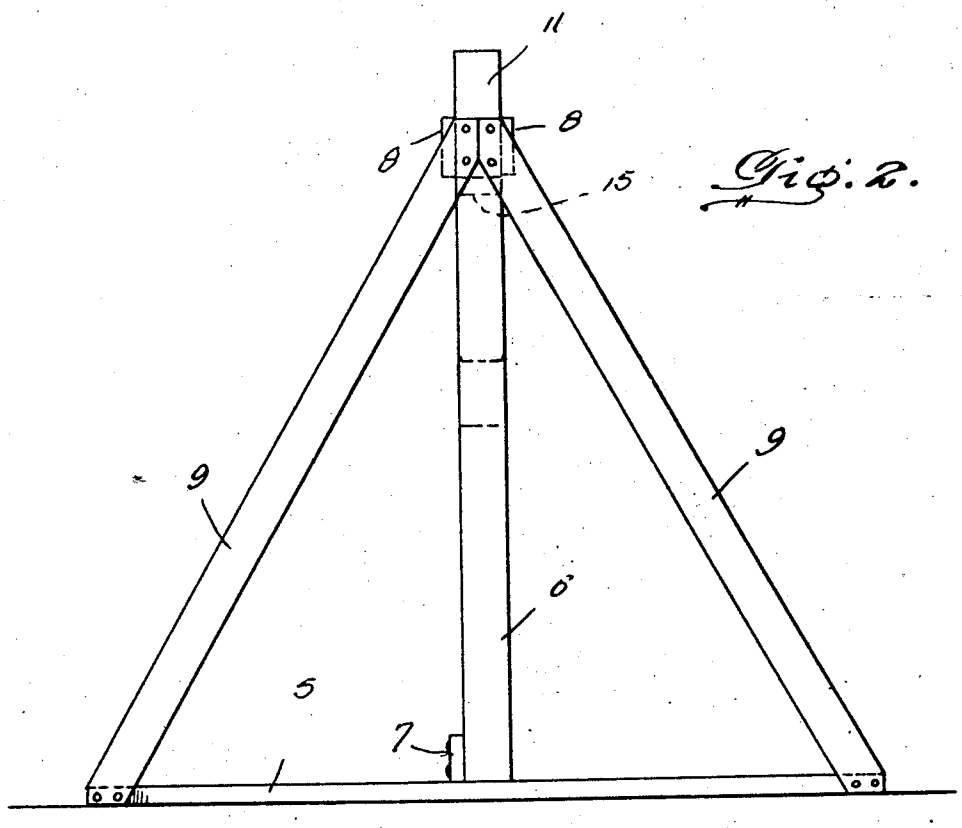


Fig. 2.

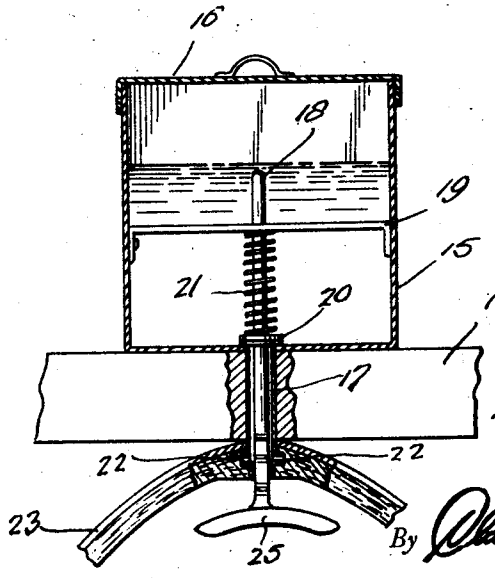


Fig. 3.

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Patented July 17, 1928. 1,677,560

UNITED STATES PATENT OFFICE.

ALVIN J. KOERNER, OF FREEMAN, SOUTH DAKOTA.

HOG-OILING DEVICE.

Application filed March 26, 1927. Serial No. 178,564.

This invention relates to new and useful improvements in hog oiling devices and has for its primary object to provide a highly novel, simple, and efficiently operating hog oiler, wherein the flow of the oil from the oil storage tank is controlled by the animals passing through the device, so that the oil will not be wasted when the device is not in use.

A further and most important object is to provide a hog oiler of this character wherein the same includes generally a stationary supporting frame structure, within which is vertically slidably disposed the oiling mechanism per se, so that animals of different sizes may pass therethrough and become properly oiled, during such movement.

Yet another and important object is to provide a hog oiling device, in accordance with this invention that consists of but few parts and these so co-related as to produce the possibility of disarrangement to a minimum, the device being further of such a construction as to permit of the ready transporting of the same from place to place.

With the foregoing and other objects in view, as will become apparent during the course of the following detailed description, the invention comprises novel advantages and arrangement of parts as will become apparent hereinafter.

In the drawings, forming a part of this application:

Figure 1 is a front elevation of my improved hog oiling device.

Figure 2 is a side elevation thereof.

Figure 3 is an enlarged fragmentary section through the oil container and its directly associated parts, which are fragmentarily disclosed.

Figure 4 is a detail sectional view on an enlarged scale taken substantially on the line 4—4 of Figure 1.

Now having particular reference to the drawings, my novel oiling device includes a main supporting frame consisting of a base board 5, from the opposite longitudinal edges of which arise vertical standards 6—6 preferably of square shape in cross section, and of somewhat enlarged area as indicated in Figure 4. These standards 6—6 are arranged intermediate the ends of the base board 5 and are connected at their lower ends by a cross brace 7, and at their upper ends by cross braces 8—8. These standards 6—6 are further braced to the base board 5 by upwardly extending inwardly diverging boards 9—9, the lower ends thereof being rigidly secured to the opposite edges of the base board 5 at the ends thereof and the inner ends of said bases 9—9 being rigidly bolted or otherwise secured to the standards 6—6 beneath their transverse braces 8—8.

Arranged upon the inner face of each standard 6 are vertically extending spaced angle bars 10—10, while disposed for vertical movement between these standards 6—6 is the oiling mechanism per se. This mechanism includes a frame consisting of a pair of vertical boards 11—11 connected at their upper ends by a cross board 12. As indicated in Figures 1 and 2, the outer surface of each of the vertical boards 11—11 of the oiling mechanism frame is a single angle bar 13, the outer wall of which is arranged between the outer walls of the angle bars 10—10 of the adjacent standard 6, so as to provide a sliding connection between the oiling mechanism and the standards of its supporting frame.

Suitably secured between the boards 11—11 of the oling mechanism frame is a bar 14, upon the top side of which is arranged an oil tank 15, of a thickness no greater than the thickness of the bar, upon the open end of which is removably disposed a suitable lid 16. As clearly disclosed in Figure 3, an oil tube 17 leads from the bottom wall of this tank 15 to an opening in the board 14, while loosely movable therethrough is an elongated valve pin 18, slidable through an opening in a guide bar 19, arranged transversely within the tank 15. Arranged upon this pin 18 beneath the bar 19 is a disc valve 20, while arranged around the pin between the valve and guide bar is an expansible coil spring 21 for normally forcing the pin downwardly, so as to maintain the disc valve 20 in position over the inner end of the tube 17, so as to prevent the discharge of the oil from the tank through the tube 17.

The lower end of the tube 17 terminates beneath the bar 14, and is formed with opposed discharge nipples 22, at the side thereof. Attached to this tube 17 above the nipples 22 is a yoke shaped metallic strap 23, upon the inner surface of which is arranged a lining of felt or other absorbent material 24, within which are arranged the discharge nipples 22 of the oil conducting tube 17.

The lower end of the elongated pin 18 terminates beneath the strap 23 and felt 24, and is formed at this end with an arcuate shaped animal body engaging plate 25, so that as the animal passes through the yoke 23, its body will so encounter the plate 25 as to cause the upward movement of the pin 18, which will raise the valve 20 from the tube 17 allowing the oil to flow therethrough to thoroughly soak into the felt 24. Further, by reason of the vertical sliding disposition of the oiling mechanism per se within the main supportng frame, animals of various sizes may pass through the yoke 23 and at the same time actuate the normally closed oil valve, so that the oil will freely pass into the felt 24.

In view of the foregoing description, when considered in conjunction with the accompanying drawings, it will at once be apparent that I have provided a highly novel, simple and relatively inexpensive hog oiling device that is well adapted for all of the purposes heretofore designated, and even though I have herein shown and described the invention as consisting of certain detail structural elements, it is nevertheless to be understood that some changes may be made therein without affecting the spirit or scope of the appended claim.

Having thus described my invention, what I claim as new is:

In a hog oiling device of the character described, a base, a pair of spaced parallel standards rising from intermediate portions of the side edges of the base, braces connected to the upper ends of the standards and extending downwardly and fixed to the ends of the base, a brace connecting the lower ends of the standards, a pair of spaced parallel braces connecting the upper ends of the standards, a frame between the standards, a tongue and groove slidable connection between the frame and the standards, said frame comprising a pair of side bars and an upper cross bar and an intermediate cross bar, a tank fixed on the intermediate cross bar and having a pipe depending therefrom through the intermediate cross bar, and an oil applying means with which the pipe is connected.

In testimony whereof I affix my signature.

ALVIN J. KOERNER.