(No Model.)

I. S. SWETLAND.

FEED TROUGH.

No. 485,022. Patented Oct. 25, 1892.

Fig. 1.

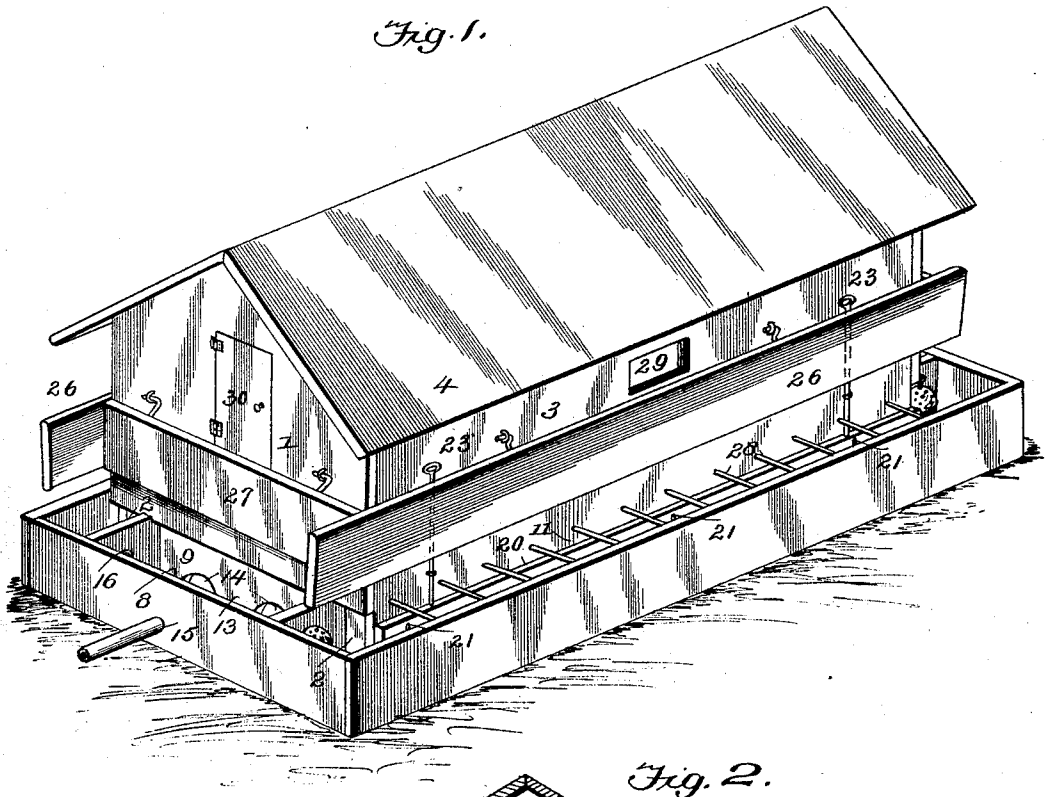
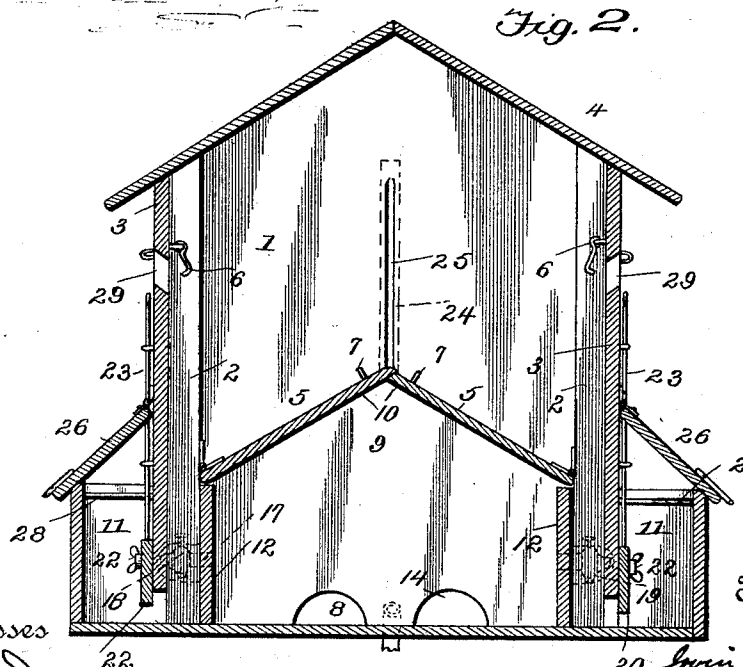


Fig. 2.



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IRVIN S. SWETLAND, OF GLENALPIN, NEBRASKA.

FEED-TROUGH.

SPECIFICATION forming part of Letters Patent No. 485,022, dated October 25, 1892.

Application filed June 10, 1892. Serial No. 436,244. (No model.)

To all whom it may concern:

Be it known that I, IRVIN S. SWETLAND, of Glenalpin, in the county of Antelope and State of Nebraska, have invented certain new and useful Improvements in Feed-Troughs; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to improvements in feed-troughs; and the object of my invention is to provide a combined feed-trough, water-tank, and soaker for all kinds of stock, especially for hogs, sheep, and cattle, which shall be conventient both for feeding and watering, which shall also be adapted for feeding soaked feed to the stock, also for providing a change of feed on alternate days, and which shall possess other advantages hereinafter set forth; and it more particularly resides in the novel construction, combination, and arrangement of parts hereinafter specified, and pointed out in the claims.

In the accompanying drawings, Figure 1 is a perspective view of the feed-trough, and Fig. 2 is a cross-section of the same.

1 represents the grain-bin, into which the grain is supplied, which is constructed with corner-posts 2, sides 3, and roof 4, and may be of wood or of any suitable material. The floor of the grain-bin is formed of two sloping wings 5, rising in the center to form a ridge. The wings 5 are hinged to the corner-posts, so as to swing upward, and may be secured in such position by hooks 6 and staples 7, if it be necessary to repair the water-tank 8 underneath these wings or to clean the same. The wings when closed are supported by walls 9 within the end walls 3 of the grain-bin, having upper edges 10, rising to an apex. The water-tank 8 extends centrally underneath the grain-bin and is divided from the feed-troughs 11 on each side by partitions 12. These partitions extend at each end beyond the ends of the grain-bin to form the ends of the water-troughs 13, the inner sides of these troughs being the walls 9, which are perforated at 14 to connect with the water-tank 8. The outer side of one or both of the water-troughs may have an aperture 15, into which a pipe may be fitted to convey water from a distant source of supply, or the water-tank may be filled by hand when desired.

11 are the feed-troughs, which are at the sides of the structure and which are partly outside the side walls of the grain-bin and partly under the open spaces in the grain-bin which intervene between the side walls 3 and the wings 5.

16 are apertures in the partitions 12, which permit water from the water-troughs to flow into the feed-troughs when it is desired to soak the grain. These apertures are provided with nozzles 17 and stop-cocks 18, and the mouths of the nozzles are covered with perforated metal 19 to confine the grain in the feed-troughs.

In order to regulate the supply of grain from the grain-bin to the feed-troughs, I provide on each side vertical shutters 20, extending the length of the grain-bin, having vertical slots 21, into which enter the thumb-screws 22, which are screwed into the sides of the bin.

23 are iron loop-handles running up in eyes on the sides of the bin to raise or lower the shutters 20, which can be then secured at the desired height by tightening the thumb-screws 22.

It may be desirable to feed different kinds of grain either at the same time or on alternate days. For this purpose I provide a vertical partition 24, which slides in grooves 25 in the ends of the grain-bin, thus dividing it into two compartments. The stock may be shut off from either side by dropping and fastening the lids 26.

The water-troughs are also provided with drop-lids 27, which can be closed at night to protect from frost in cold weather.

Iron bars 28 are secured across the troughs at proper intervals to keep the stock out of the troughs.

Each side of the grain-bin is provided with scoop-holes 29, through which to supply the grain, and there is a door 30 in the end to enter the grain-bin, if necessary.

Having thus fully described my invention, what I claim, and desire to secure by Letters Patent, is—

1. In an apparatus of the class described, a water-tank 8, situated beneath said bin, feed-troughs 11 at the side and below said bin,

water-troughs 13, connecting the ends of said feed-troughs, nozzles 17, connecting said water-tanks with said feed-troughs, and stop-cocks 18 on said nozzles, the mouths of said nozzles being covered with a screen, shutters 20 in said feed-troughs, and lids 26 and 27 for said feed-troughs, substantially as and for the purpose set forth.

2. In an apparatus of the class described, the combination of a grain-bin, sloping floor-sections hinged at the sides of the grain-bin and rising toward the center, and a removable central vertical partition in the grain-bin, substantially as described.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

IRVIN S. SWETLAND.

Witnesses:
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