

No. 879,559.

PATENTED FEB. 18, 1908.

E. A. LEE.
FEED TROUGH.

APPLICATION FILED JULY 15, 1907.

Fig. 1.

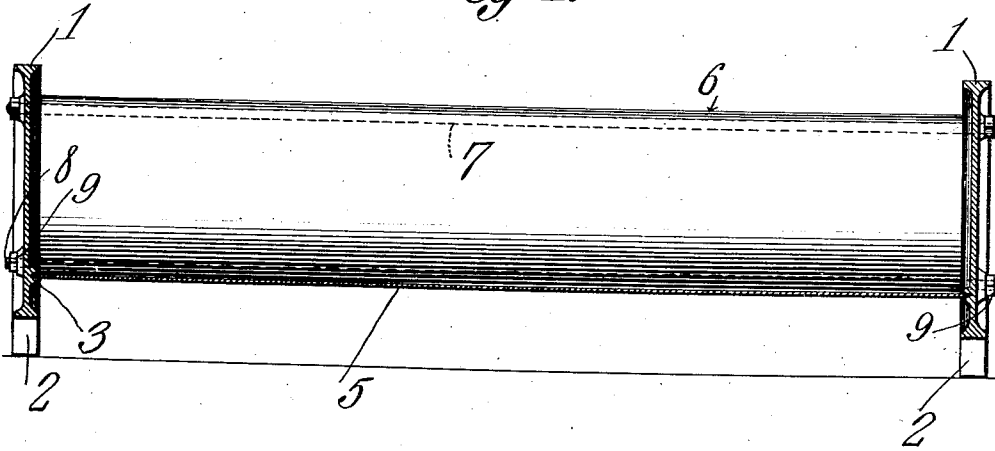


Fig. 2.

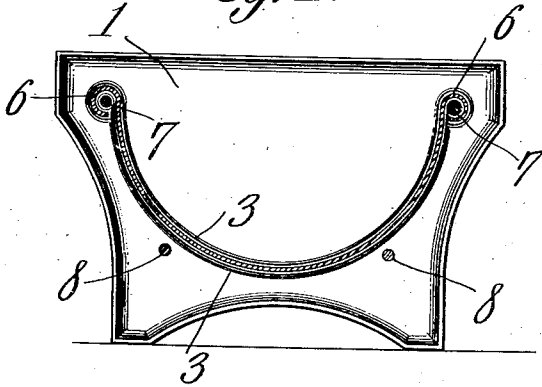
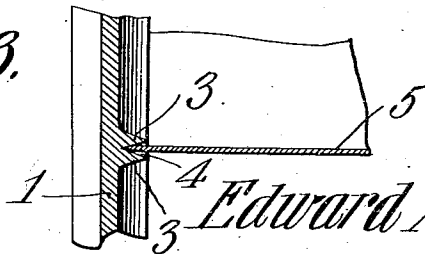


Fig. 3.



WITNESSES:

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EDWARD ALONZO LEE, OF VINITA, OKLAHOMA.

FEED-TROUGH.

No. 879,559.

Specification of Letters Patent.

Patented Feb. 18, 1908.

Application filed July 15, 1907. Serial No. 383,759.

To all whom it may concern:

Be it known that I, EDWARD A. LEE, a citizen of the United States, residing at Vinita, in District 2, Oklahoma, have invented a new and useful Feed-Trough, of which the following is a specification.

This invention relates to feed troughs and is particularly designed for use in feeding swine.

The object of the invention is to provide an all metal trough which can be readily set up or taken apart so as to occupy the minimum amount of space and facilitate its shipment.

A still further object is to provide a trough of this character formed of two parts, which does not necessitate the use of rivets, solder or the like, and is rigid and durable, the same being unaffected by liquid which may be frozen within it.

With these and other objects in view the invention consists of certain novel features of construction and combinations of parts which will be hereinafter more fully described and pointed out in the claims.

In the accompanying drawings is shown the preferred form of the invention.

In said drawings: Figure 1 is a central longitudinal section through the trough. Fig. 2 is a transverse section therethrough. Fig. 3 is an enlarged section through a portion of one of the standards and that portion of the body engaging the same.

Referring to the figures by characters of reference 1, 1 designate heads or standards preferably formed of light metal castings having feet 2 whereby they may be firmly supported upon the ground. Formed upon the inner face of each of these heads are substantially semi-circular concentric ribs 3 forming a groove 4 therebetween which, as shown particularly in Fig. 3, is preferably V-shaped in cross section. Interposed between the two heads is a trough body 5 preferably formed of a single sheet of metal bent into substantially semi-cylindrical form and having its longitudinal edges rolled as indicated at 6 so as to receive tie bolts or rods 7 which extend longitudinally through these rolled portions and through corresponding openings formed in the heads 1. It is to be understood that the end portions of the ribs 3 are curved so as to conform with the contours of the rolled portions 6. Tie rods or bolts 8 have their end portions extended through the heads at points adjacent the feet 2 and these rods as

well as the rods 7 hereinbefore referred to are provided with nuts 9 or other suitable devices whereby the heads can be drawn together so as to clamp tightly upon the ends of the trough body 5 so as to cause said body to be tightly wedged within the grooves 4.

It is to be understood that when the herein described trough is not in use the parts can be detached and will obviously occupy the minimum amount of space. When it is desired to set up the trough it is merely necessary to bend the trough body longitudinally so that the ends thereof can be inserted into the grooves 4. The bolts 7 and 8 are then inserted into the heads and the nuts screwed thereon so as to clamp the heads against the trough body. Not only will the parts be firmly held together without the use of rivets, solder and the like, but waterproof joints will be formed between the heads and trough body because of the fact that the ends of the body become tightly wedged within the V-shaped grooves 4. In view of the fact that the trough is made entirely of metal without objectionable joints it will not be injured should liquids freeze within the trough. By detaching the parts the trough body can be thoroughly cleaned at the corners thereof should it be so desired.

What is claimed is:

1. A feed trough comprising heads having concentric arcuate ribs thereon, a transversely curved plate interposed between the heads and constituting the trough body, the ends of said plate being disposed between the ribs upon the heads, and devices outside the trough body for detachably binding the heads upon the ends of the plate.

2. A feed trough comprising heads having concentric arcuate ribs thereon forming arcuate grooves therebetween, said grooves being V-shaped in cross section, a transversely curved plate interposed between the heads and having its ends seated within the grooves, said plate constituting the trough body, and devices outside the body for detachably binding the heads upon the plate to wedge the plate ends within the grooves.

3. A feed trough comprising heads having concentric arcuate ribs thereon forming grooves therebetween, each of said grooves being V-shaped in cross section, a transversely curved plate interposed between the heads and having its end portions seated within the grooves, the longitudinal edges of said plate being rolled, and tie devices con-

necting the heads and extending through the rolls, said devices being disposed to detachably hold the heads and plate in engagement.

4. A feed trough comprising oppositely disposed heads, each head having concentric arcuate ribs thereon forming a V-shaped groove therebetween, a transversely curved plate interposed between the heads and constituting the body of the trough, the ends of
10 said plate being seated within the grooves,

and tie rods outside the body and adjustably connecting the heads and disposed to detachably bind them upon the plate ends.

In testimony that I claim the foregoing as my own, I have hereto affixed my signature 15 in the presence of two witnesses.

EDWARD ALONZO LEE.

Witnesses:

J. EDGAR JONES,
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