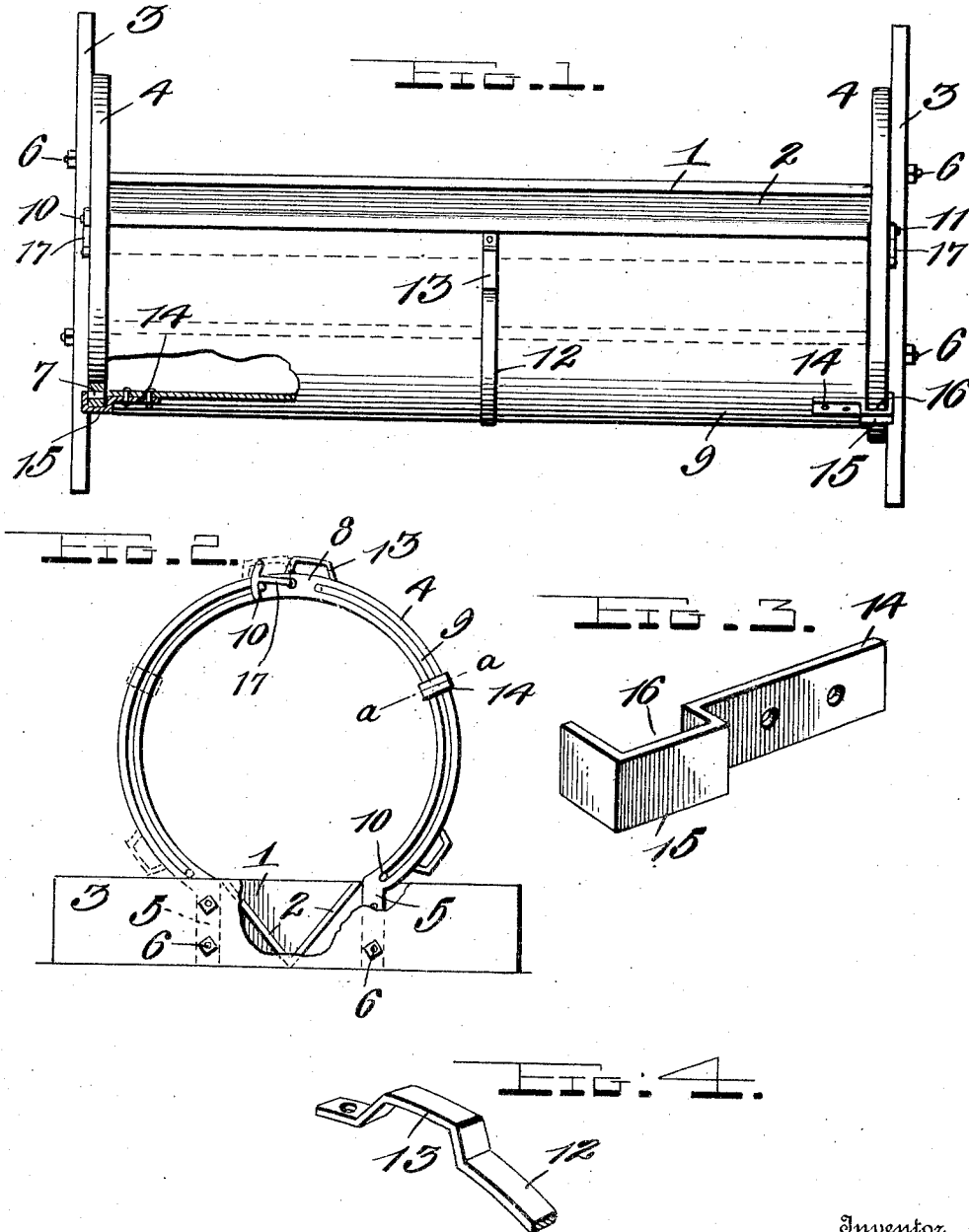


C. A. GAYLOR.
FEED TROUGH.
APPLICATION FILED FEB. 21, 1911.

1,025,392.

Patented May 7, 1912.



Witnesses

Chas. L. Giestauer.
J. S. Ellis.

Inventor
Charles A. Gaylor,

By Watson E. Coleman,
Attorney

UNITED STATES PATENT OFFICE.

CHARLES A. GAYLOR, OF WINCHESTER, INDIANA.

FEED-TROUGH.

1,025,392.

Specification of Letters Patent.

Patented May 7, 1912.

Application filed February 21, 1911. Serial No. 609,928.

To all whom it may concern:

Be it known that I, CHARLES A. GAYLOR, a citizen of the United States, residing at Winchester, in the county of Randolph and State of Indiana, have invented certain new and useful Improvements in Feed-Troughs, of which the following is a specification, reference being had to the accompanying drawings.

This invention relates to improvements in troughs such as are used for feeding hogs, and other animals, the object of the invention being to provide in connection with a feed trough, a cover which may be shifted to either side of the trough, and which serves to prevent the animals from having access to the trough while the feed is being placed therein, thus preventing the animals from crowding at the trough and from interfering with the placing of the feed therein, the invention consisting in the construction, combination and arrangement of devices hereinafter described and claimed.

In the accompanying drawings—Figure 1 is partly a plan and partly a horizontal sectional view of the feed trough provided with my improved guard or cover, the plane of section being indicated by the line *a-a* of Fig. 2. Fig. 2 is an end elevation of the same showing the guard in one position in full lines, and in another position in dotted lines. Figs. 3 and 4 are detail views.

The trough 1 here shown for the purposes of this specification comprises a pair of downwardly converging boards 2, which form the walls of the trough and a pair of end boards 3, which are disposed transversely with respect to the boards 2, and secured to the ends thereof, the boards 2 being disposed medially of the end boards 3.

In accordance with my invention, I provide a pair of guiding and supporting arch bars 4 which form open rings and the ends 5 of which extend downwardly and are secured to the inner sides of the end boards 3 at points just beyond the outer sides of the inclined walls or boards 2, by means of bolts 6. These arched bars extend above the trough and also extend across the ends thereof as shown, and are provided with guide slots 7 which are curved, are concentric with the arched bars and extend from the upper sides of the end boards 3 of the trough nearly to the upper central portions 8 of the said arch bars. I also provide a substantially semi-cylindrical cover or guard 9 which in

practice is preferably made of sheet metal and is of suitable radius. The length of the said cover or guard is substantially coextensive with the space between the arch bars 4 and the said guard is provided at its sides with rods 10 which are secured thereto, preferably by bending the sides of the guard around the said rods, and the ends 11 of the said rods project from the ends of the guard and operate in the slots 7. Hence the cover or guard is slidably connected to the arched supporting bars and guide bars 4, for oscillating movement with respect to the said bars so that the cover may be disposed over either side of the trough. It will be understood by reference to the drawings, that when the cover or guard is disposed to either side of the trough the ends 11 of one of the rods 10 will be at the bottom of the slots 7, on one side of the bars 4, and the ends of the other rod 10 will be at the upper ends of the slots on the other sides of the said bars.

At the center of the cover or guard on the outer side thereof, is a transversely disposed reinforcing strap 12 which is made of iron or other suitable metal and the ends of which are bent to form handles 13, which may be grasped and employed in shifting the guard to one side or the other of the trough, as may be desired. This strap 12, in addition to reinforcing the cover or guard, and greatly strengthening the same, also provides the handles by means of which the guard may be operated. At the center of the guard on its outer side near its ends, are longitudinally disposed reinforcing bars 14, which are riveted or otherwise suitably secured thereto and are provided at their outer ends with off-set portions 15 the inner sides of which form notches 16, which engage the outer sides or peripheries of the arch bars 4. Hence the bars 14 are slidably engaged with the arch bars and while strengthening the ends of the guard also serve to connect the centers of the end portions of the same to the arch bars.

In use the trough with my improved shiftable guard is disposed with its longitudinal center in line with a wall or fence which confines the animals so that one side of the trough is on the inner side of said wall, or fence, and the other side of the trough is on the outer side thereof, the fence or wall line being indicated at *b*, in Fig. 2. Before feeding the animals, the guard or cover is turned to the inner side of the

trough so as to exclude the animals therefrom, and to open the opposite side of the trough and enable the feed to be readily placed therein. When the feed is ready the guard or cover is then shifted so as to open or uncover the inner side of the trough and close the outer side thereof, the guard when thus disposed permitting the animals to reach the feed in the trough as will be understood.

While I have herein shown and described what I now regard as the preferred form of my invention, I would have it understood that changes may be made in the form, construction and proportion of the several parts within the scope of my invention, as defined by the appended claim.

To lock the cover or guard in either position, I provide a double hook 17, which is pivoted on the center of one of the arch bars, and may be swung into engagement with the projecting end 11 of the rod 10. The trough may be of any suitable form. The guard may, if preferred, be made of corrugated iron.

I claim:—

A device of the character described having parallel transverse end walls, a trough centrally arranged between said end walls, supporting bars of substantially circular form having spaced ends disposed in paral-

lel relation and adapted to be secured to the inner faces of the end walls on opposite sides of said trough, each of said supporting bars having a pair of curved slots therein concentric with relation to the bars, each of said slots extending from the upper end of the attached end of the bar and terminating at a point on one side of the center of said bar, a substantially semi-tubular guard having projecting studs at each of its ends loosely disposed in the slots of said bars, one stud on each end of the guard being disposed in the upper ends of corresponding slots in the respective supporting bars, and the other studs on the ends of said guard being disposed in the lower ends of the other slots of the respective supporting bars, and U-shaped guide members secured to the periphery of the guard at each of its ends and embracing the curved supporting bars to hold the ends of the guard out of frictional contact with said bars and prevent longitudinal movement of the guard therebetween.

In testimony whereof I hereunto affix my signature in the presence of two witnesses.

CHARLES A. GAYLOR.

Witnesses:

W. A. SETTLE,
E. E. LOLLAR.