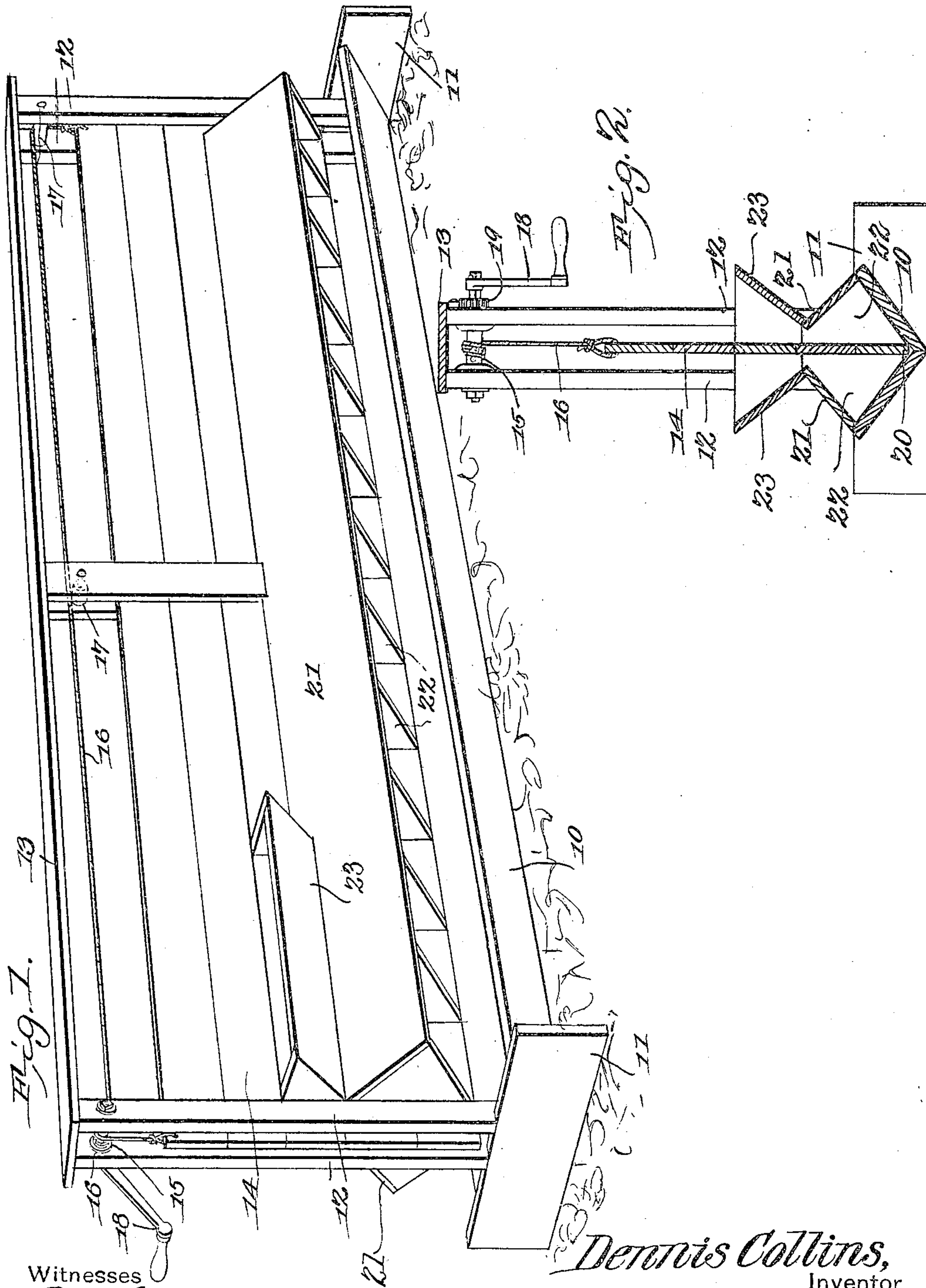


No. 816,219.

PATENTED MAR. 27, 1906.

D. COLLINS.
FEEDING DEVICE.
APPLICATION FILED OCT. 31, 1905.



Witnesses
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UNITED STATES PATENT OFFICE.

DENNIS COLLINS, OF NEW HAMPTON, IOWA.

FEEDING DEVICE.

No. 816,219.

Specification of Letters Patent.

Patented March 27, 1906.

Application filed October 31, 1905. Serial No. 285,269.

To all whom it may concern:

Be it known that I, DENNIS COLLINS, a citizen of the United States, residing at New Hampton, in the county of Chickasaw and State of Iowa, have invented a new and useful Feeding Device, of which the following is a specification.

This invention relates to stock-feeding devices, and has for an object to provide a device of the class embodying new and improved features of convenience, utility, durability, and efficiency.

A further object of the invention is to provide an attachment for feed-troughs, especially troughs for feeding swine, embodying improved means whereby one size of swine may eat from the trough, while larger hogs are excluded.

A further object of the invention is to provide improved means whereby the feeding-trough may be closed to prevent hogs of any size from getting into or feeding from the trough, while providing means for the unobstructed introduction of feed.

A further object of the invention is to provide an improved attachment for feed-troughs embodying division-boards, providing thereby stalls into which one hog may insert its head and eat from the trough to the exclusion of another in the same stall, the division-boards being vertically movable upon and with the attachment, and whereby the attachment may be used in association with any form of trough and the trough be left free and unobstructed for cleaning.

With these and other objects in view the present invention consists in the combination and arrangement of parts, as will be hereinafter fully described, shown in the accompanying drawings, and particularly pointed out in the appended claims, it being understood that changes in the form, proportion, size, and minor details may be made without departing from the spirit or sacrificing any of the advantages of this invention.

In the drawings, Figure 1 is a perspective view of the improved feeding device. Fig. 2 is a transverse vertical sectional view of the feeding device.

Like characters of reference indicate corresponding parts in both of the figures of the drawings.

The improved feeding device forming the subject-matter of this application is adapted for use in association with a feed-trough of any ordinary shape or construction, as the V-

shaped trough 10, supported upon the end pieces 11. At any convenient point vertical guides 12 are erected in parallel pairs at each end of the trough and connected by a rider 13, secured upon their upper ends. Between the guides is mounted the panel 14, and a winch 15 is journaled in the guides and provided with a cable 16, which, passing over suitable idlers, as 17, is connected to each end of the panel. The winch is provided with any approved means for operating, as the crank 18, and a pawl and ratchet 19 is arranged to hold the winch and the panel at any desired point. When the panel is at the lower extreme of its movement, it is in contact with the bottom of the trough, as at 20, and obliquely-disposed hoods 21 are carried by the panel, extending horizontally and positioned to cover and close both sides of the trough. Under each hood are secured a plurality of vertical division-boards 22, spaced in a horizontal series and having one side extending coincident with and secured to the hood, another side secured to the panel and reaching to the bottom thereof, while the third side coincides with the interior of the trough, and, as here shown, in association with a V-shaped trough. The division-boards are triangular.

The feed may be introduced into the trough through the hopper 23 and the panel raised by means of the crank and winch to such a height that the smallest animals may insert their heads under the hood and between the division-boards and eat from the trough, while all larger animals are unable to pass their heads within the limited space and are thereby excluded. After the smaller animals have eaten the panel and hood may be again raised to permit still a larger-sized lot of animals to feed, the largest ones being still excluded.

The panel and hood may be manipulated to as many grades as desired, whereby the smaller animals are not prevented from eating by the larger. It will also be noted that the panel, hood, and division-boards are raised together entirely out of the trough, thus permitting the thorough cleaning of the trough.

While the trough here shown is V-shaped, and the division-boards consequently triangular, it is to be understood that the trough, which forms no part of this invention, may be of any approved form, and the division-boards will be shaped to conform thereto.

Having thus described the invention, what is claimed is—

1. A feeding device comprising a vertically-slidable panel carrying division-boards spaced longitudinally thereof.
2. A feeding device comprising a panel disposed and slidable in a vertical plane and division-boards carried by and spaced longitudinally upon the panel.
3. A feeding device comprising a panel disposed and movable in a vertical plane and division-boards disposed in vertical planes and spaced longitudinally upon the panel.
4. A feeding device comprising a panel disposed and movable in a vertical plane and division-boards carried by the panel and spaced longitudinally and each disposed in a vertical plane perpendicular to the plane of the panel.
5. A feeding device comprising a panel disposed in a vertical plane and carrying division-boards spaced longitudinally thereof, and manually-operated means to move the panel vertically.
6. A feeding device comprising a panel disposed in a vertical plane, division-boards disposed in vertical planes and spaced longitudinally upon the panel and manually-operated means to move the panel and division-boards vertically.
7. A feeding device comprising a panel disposed in a vertical plane, division-boards carried by the panel spaced longitudinally upon the panel and each disposed in a vertical plane perpendicular to the plane of the panel and manually-operated means to move the panel and division-boards vertically.
8. A feeding device comprising a panel disposed and movable in a vertical plane, a hood disposed obliquely to and carried by the panel, and division-boards carried by and between the panel and hood.
9. A feeding device comprising a panel disposed in a vertical plane, a hood disposed obliquely to and carried by the panel, division-boards carried by and between the panel and hood and manually-operated means to move the panel and hood vertically.
10. A feeding device comprising a panel disposed and movable in a vertical plane, a longitudinally-extending hood disposed ob-

liquely to and carried by the panel, division-boards carried by and between the panel and hood and spaced in a horizontal series.

11. A feeding device comprising a panel disposed in a vertical plane, a longitudinally-extending hood disposed obliquely to and carried by the panel, division-boards carried by and between the panel and hood and spaced longitudinally upon the panel and manually-operated means to move the panel and hood vertically.

12. A feeding device comprising a panel disposed and movable in a vertical plane, a longitudinally-extending hood disposed obliquely to and carried by the panel, and division-boards carried by and between the panel and hood and spaced longitudinally upon the panel and each disposed in a vertical plane perpendicular to the plane of the panel.

13. A feeding device comprising a panel disposed in a vertical plane, a longitudinally-extending hood disposed obliquely to and carried by the panel, division-boards carried by and between the panel and hood and spaced longitudinally upon the panel and each disposed in a vertical plane perpendicular to the plane of the panel, and manually-operated means to move the panel and hood vertically.

14. A feeding device comprising vertical guides, a panel disposed in the guides, a hood disposed and secured obliquely to the side of the panel somewhat above and extending parallel with the lower edge, triangular division-boards secured in vertical planes and each with one edge to the panel and one to the under side of the hood and spaced longitudinally upon the panel, a winch mounted upon the guides, a cable from the winch arranged to move the panel in a vertical plane, means to operate the winch and means to prevent backward movement.

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

DENNIS COLLINS.

Witnesses:

A. B. HARRIS,
EDSON A. MOON.