Oct. 10, 1950 E. UHRENHOLDT 2,525,385

HOG FEEDER

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Fig. 1.

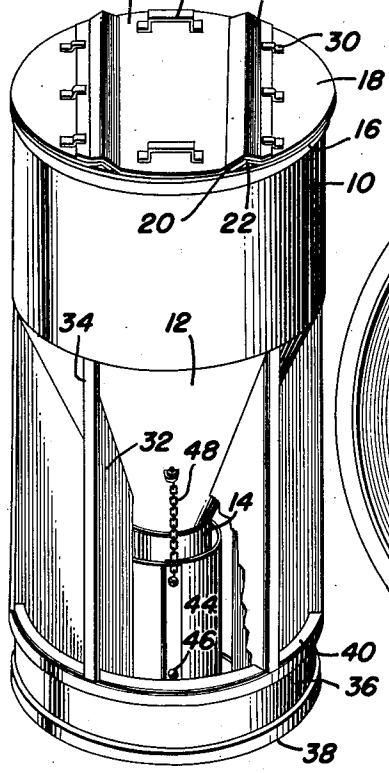
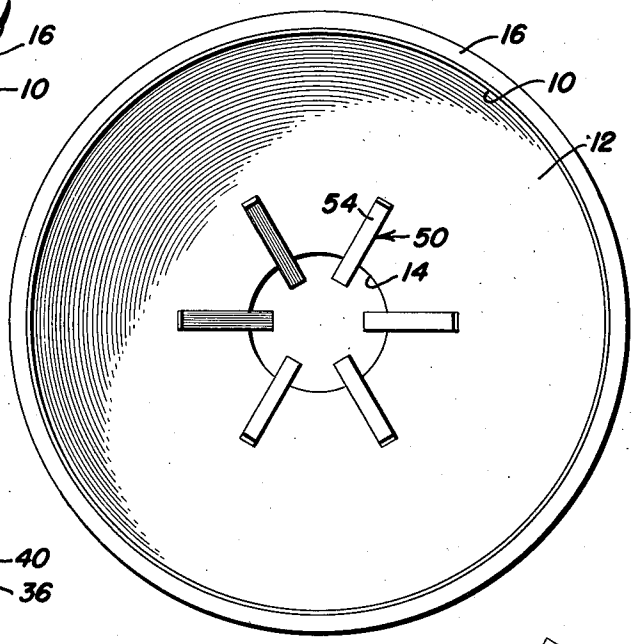


Fig. 2.



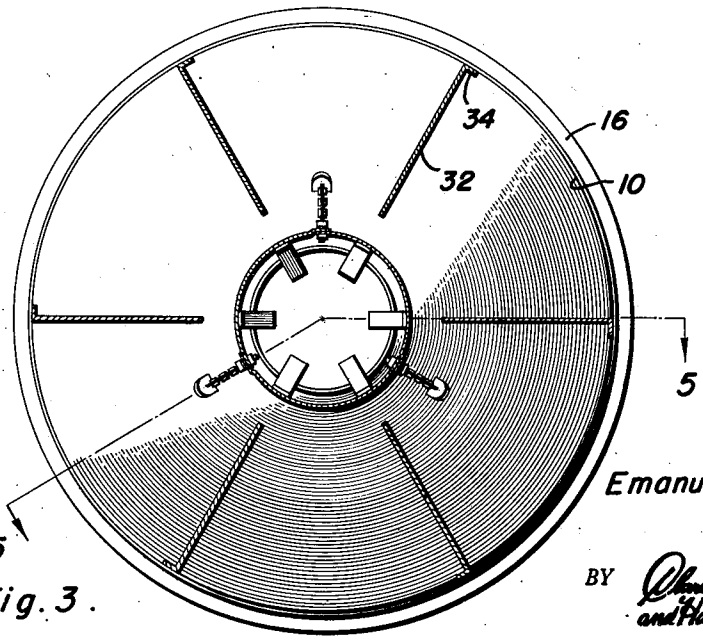


Fig. 3.

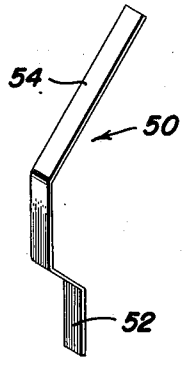


Fig. 4.

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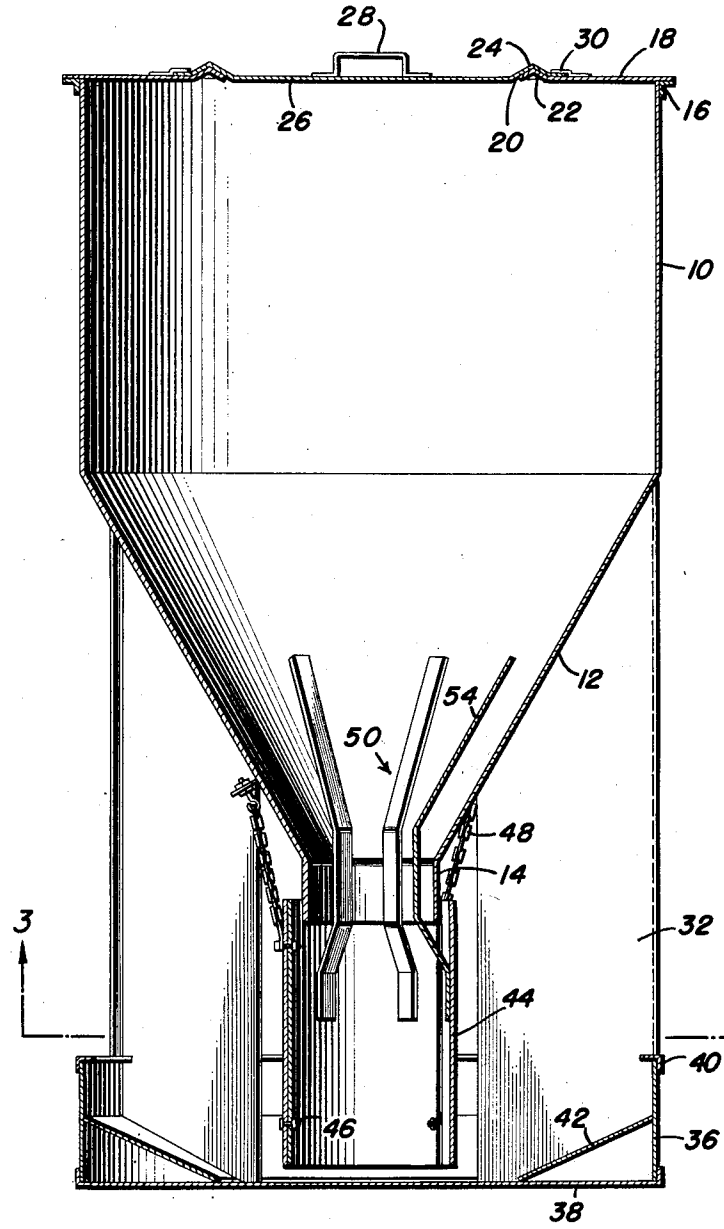
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Fig. 5.



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HOG FEEDER

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Application October 8, 1948, Serial No. 53,533

4 Claims. (Cl. 119—53.5)

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This invention relates to new and useful improvements in stock feeding devices and the primary object of the present invention is to provide a hog feeding apparatus including a feed receptacle having a delivery opening, a swingably mounted container communicating with the delivery opening and embodying novel and improved means carried by the container and positioned in the receptacle for agitating feed in the receptacle as an animal contacts the container, whereby feed will pass from the receptacle to an easily accessible area for the animal.

Another important object of the present invention is to provide a stock feeder including a receptacle having a plurality of circumferentially spaced feeding compartments permitting a group of animals, such as hogs, to feed in a comfortable manner without interference with each other.

A further object of the present invention is to provide a hog feeding apparatus so constructed as to permit feed to be quickly and readily inserted into the same in a convenient and highly satisfactory manner, and which embodies in its structure a group of elements that are quickly and readily assembled or disassembled.

A still further aim of the present invention is to provide a hog feeder that is simple and practical in construction, strong and reliable in use, small and compact in structure, neat and attractive in appearance, relatively inexpensive to manufacture, and otherwise well adapted for the purposes for which the same is intended.

Other objects and advantages reside in the details of construction and operation as more fully hereinafter described and claimed, reference being had to the accompanying drawings forming part hereof, wherein like numerals refer to like parts throughout, and in which:

Figure 1 is a perspective view of the present invention and with parts of one of the partitions broken away for the convenience of explanation;

Figure 2 is a top plan view of the present invention, the upper wall and closure removed therefrom;

Figure 3 is a transverse horizontal sectional view taken through the lower portion of the structure illustrated in Figure 1 and looking upwardly;

Figure 4 is a perspective view of one of the agitators used in conjunction with the present invention; and,

Figure 5 is a longitudinal sectional view taken substantially on the plane of section line 5—5 of Figure 3.

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Referring now to the drawings in detail, wherein for the purpose of illustration, there is disclosed a preferred embodiment of the present invention, the numeral 10 represents a substantially cylindrical receptacle having a tapered lower portion or frusto-conical portion 12 that terminates in a delivery conduit or neck 14.

An annular angle strip 16 embraces and is frictionally fitted to the outer periphery of the receptacle 10 at the open upper end thereof and supports an upper wall 18 having a diametrical opening, substantially rectangular, that is represented by the numeral 20 in Figure 5.

The spaced parallel edges of the opening 20 are bent to form inverted V-shaped guides 22 that slidably receive V-shaped longitudinal protuberances 24 at the sides of a substantially rectangular closure 26. The closure 26 is provided with a group of hand grips 28 which facilitate the sliding movement of the closure in a convenient manner.

Resilient guide arms 30 are fixed to the outer face of the upper wall 18 and the free ends of the arms 30 are spaced from the bottom wall 18 to bear against the outer surface of the closure 26 to guide the sliding movement of the closure and to normally urge the closure against the upper wall in a closed and locked position.

Suitably fixed to and depending from the lower tapered portion 12 of the receptacle 10, is a plurality of circumferentially spaced, radially disposed partitions 32 the outer edges of which are turned sideways to form substantially vertical flanges 34.

The lower portions of the partitions 32 are embraced by a skirt or sleeve 36 having a removable lower wall or closure 38 that supports the lower edges of the partitions 32.

The upper annular edge of the skirt 36 supports an annular angle strip 40 that shields the upper edge of the skirt and the partitions 32 are appropriately notched to receive the strip 40 or more particularly the horizontal leg thereof.

A downwardly and inwardly inclined ring or annular trough 42 is fixed to the inner periphery of the skirt 36 for directing feed to the central portion of the bottom wall 38.

Loosely disposed about the conduit 14 is the open upper end of a conduit or delivery sleeve 44 that is constructed of a plurality of arcuate sections having overlapping edges which are detachably joined by suitable fasteners 46.

A group of flexible hanger straps or chains 48 are fixed at their ends to the upper portion of the sleeve 44 and to the tapered portion 12 for

swinging movement of the sleeve **44** relative to the receptacle **10**.

The numeral **50** represents a plurality of substantially U-shaped agitator members or resilient arms generally having one of their legs, **52**, turned outwardly. The legs **52** of the members **50** are fixed to the inner periphery of the sleeve **44**, the web portions of the members **50** are spaced from the conduit **14**, and the upper free legs **54** of the members **50** are spaced from the inner surface of the tapered portion **12**.

It is noted, that the members **50** are spaced circumferentially and that the same are preferably aligned with the partitions **32** as illustrated in Figure 3 of the drawings.

In practical use of the present invention, the space between adjacent partitions forms a feeding compartment that will accommodate a hog.

As a hog engages or contacts the sleeve **44**, the same will swing back and forth relative to the receptacle **10**, and the free ends **54** of the members **50** will agitate feed in the tapered portion **12** causing the feed to be dispensed through the conduit **14** and the sleeve **44** whereupon the feed will fall on the bottom wall **38** and hence rising on the ring **42**.

In view of the foregoing description taken in conjunction with the accompanying drawings it is believed that a clear understanding of the device will be quite apparent to those skilled in this art. A more detailed description is accordingly deemed unnecessary.

It is to be understood, however, that even though there is herein shown and described a preferred embodiment of the invention the same is susceptible to certain changes fully comprehended by the spirit of the invention as herein described and the scope of the appended claims.

Having described the invention, what is claimed as new is:

1. In a hog feeding apparatus including a hopper having a downwardly extending delivery conduit; means for agitating feed in the hopper comprising a sleeve having an upper end portion embracing the delivery conduit, means detachably securing the sleeve to the hopper for swinging movement, and a plurality of arms fixed to the inner periphery of said sleeve and extending into the hopper, said arms having upper portions spaced from the inner surface of the hopper.

2. The combination of claim 1 wherein said sleeve includes a plurality of arcuate sections having overlapping edges, and fastening means detachably securing the overlapping edges of said sections together.

3. In a hog feeding apparatus including a hopper having a downwardly extending delivery conduit; means for agitating feed in the hopper comprising a sleeve having an upper end portion embracing the delivery conduit, means detachably securing the sleeve to the hopper for swinging movement, and a plurality of arms fixed to the inner periphery of said sleeve and supported solely by said sleeve, said arms having upper portions extending into said hopper and spaced from inner surface of said hopper.

4. In a hog feeding apparatus including a hopper having a downwardly extending delivery conduit; a plurality of circumferentially spaced partitions secured to the outer periphery of said hopper, said partitions having inner vertical edges, the inner vertical edges of adjacent partitions being spaced from each other to define access openings, a sleeve member having an upper portion embracing the delivery conduit, means detachably and swingably securing the sleeve member to the hopper, said sleeve member including a pair of concavo-convexed sections having overlapping edges, fasteners detachably securing the overlapping edges of said sections together, and resilient arms fixed to and supported solely by said sleeve member, said arms having upper portions extending through the delivery conduit and into the hopper, the upper portions extending through the delivery conduit and into the hopper, the upper portions of said arms being spaced from the inner surface of said hopper, said sleeve member being of a diameter greater than the space between the inner vertical edges of a pair of adjacent partitions, said concavo-convexed sections being detached for removing the sleeve member between the inner vertical edges of a pair of adjacent partitions.

EMANUEL UHRENHOLDT.

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