

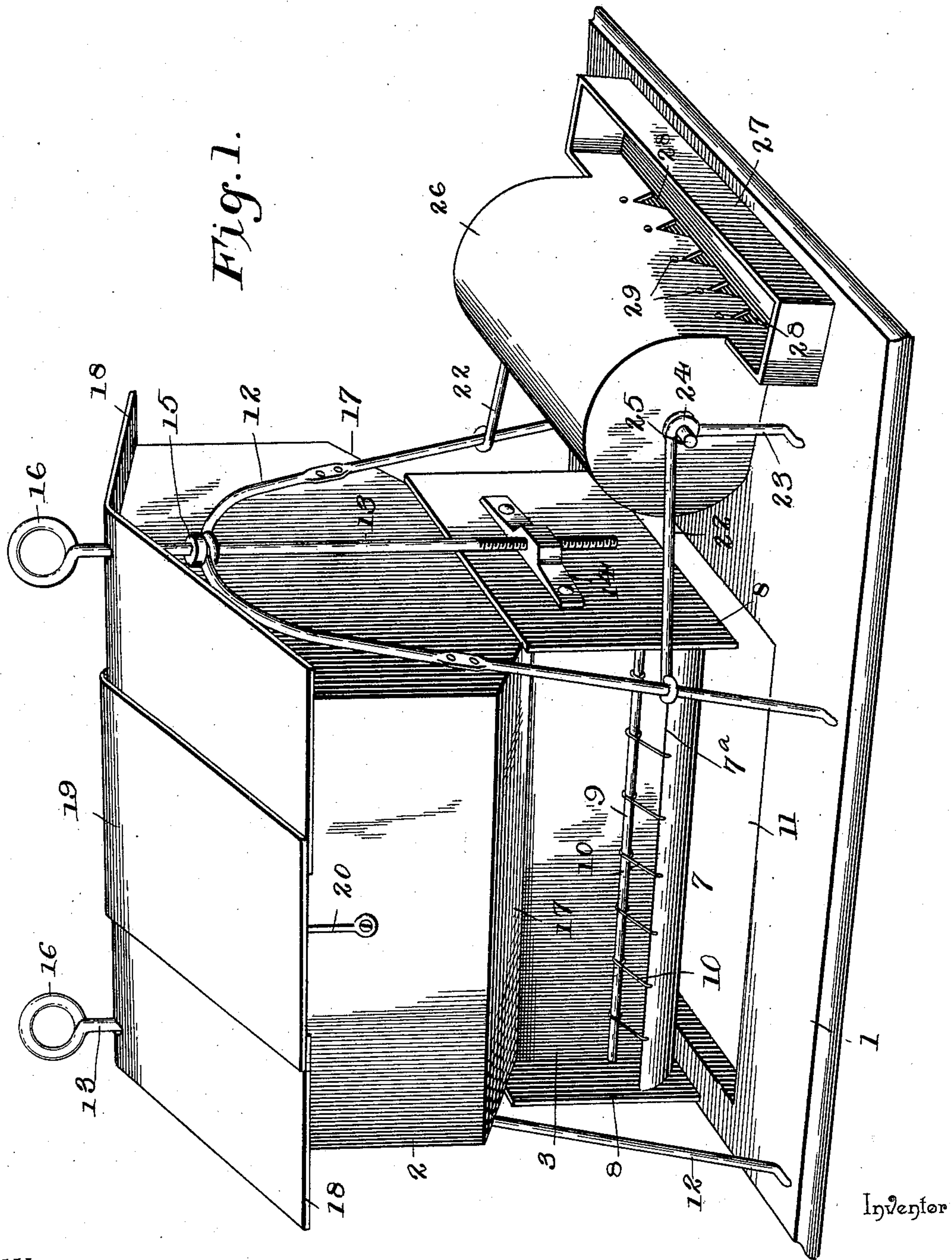
(No Model.)

2 Sheets—Sheet 1.

O. F. JOHNSON.
POULTRY FEEDER.

No. 581,120.

Patented Apr. 20, 1897.



Witnesses

Chas. A. Ford.

By his Attorneys, *Orlando F. Johnson,*

Chas. Snow Geo.

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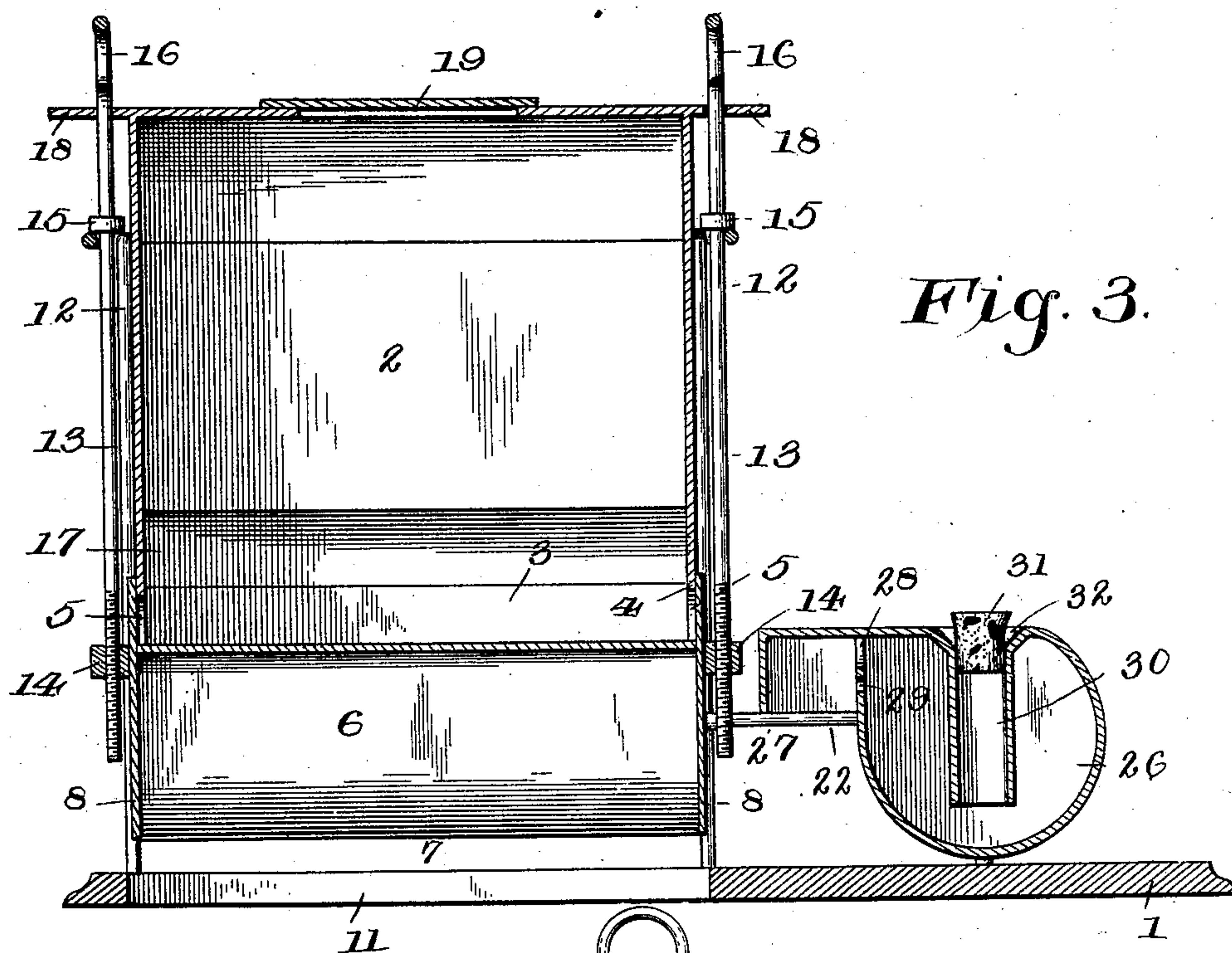
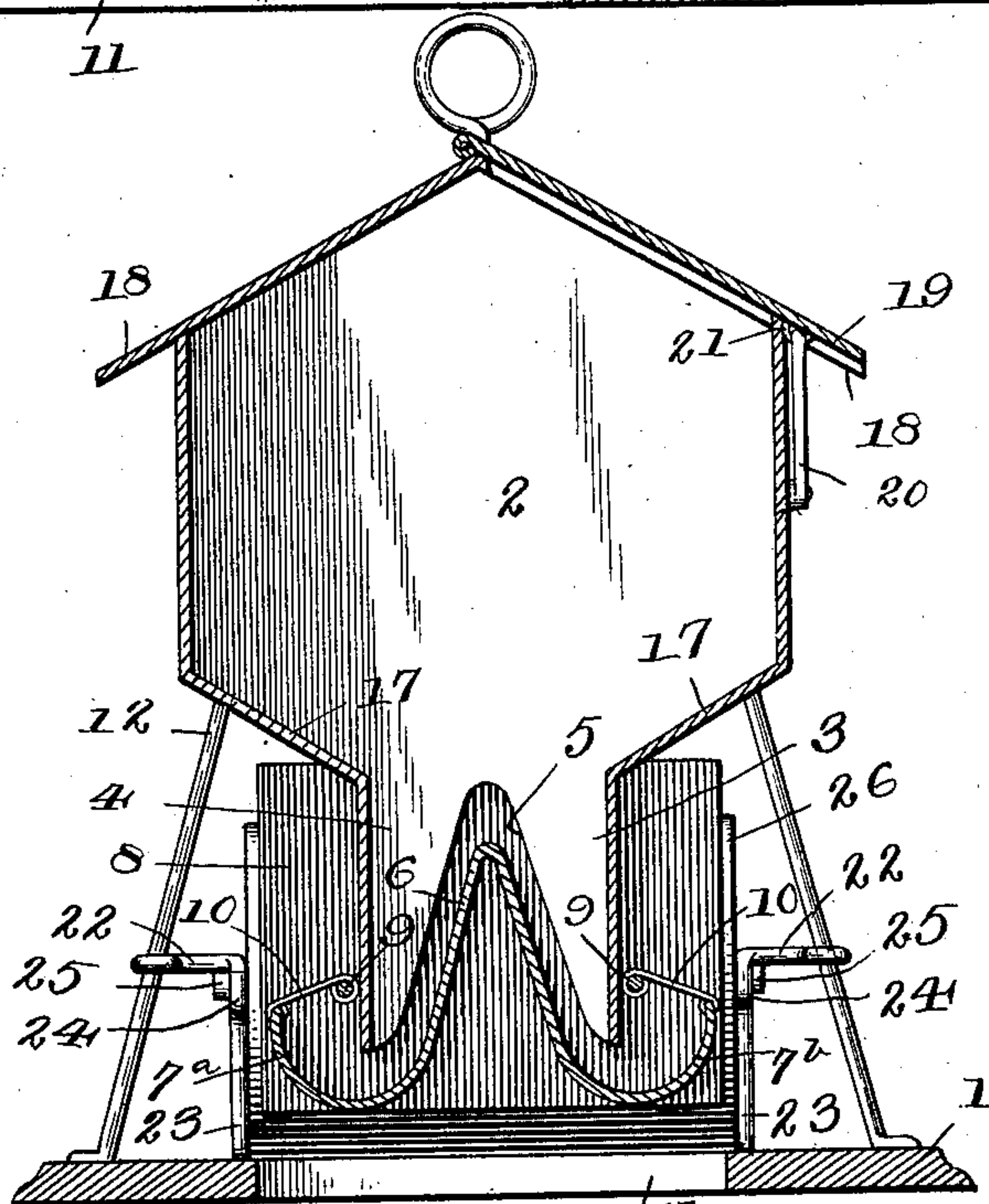


Fig. 2.



Witnesses

Chas. A. Ford
[Signature]

By his Attorneys, Orlando F. Johnson

C. A. Snow & Co.

Inventor

UNITED STATES PATENT OFFICE.

ORLANDO F. JOHNSON, OF GRAMMER, INDIANA.

POULTRY-FEEDER.

SPECIFICATION forming part of Letters Patent No. 581,120, dated April 20, 1897.

Application filed October 9, 1895. Serial No. 565,167. (No model.)

To all whom it may concern:

Be it known that I, ORLANDO F. JOHNSON, a citizen of the United States, residing at Grammer, in the county of Bartholomew and State of Indiana, have invented a new and useful Poultry-Feeder, of which the following is a specification.

My invention relates to poultry-feeding devices, and has for its object to provide a simple, inexpensive, and efficient mechanism adapted to supply feed and water continuously, as they are consumed, while the supply in the reservoirs lasts, the parts being so constructed and arranged as to control the supply to the troughs and to facilitate replenishing the reservoirs.

Further objects and advantages of this invention will appear in the following description and the novel features thereof will be particularly pointed out in the appended claims.

In the drawings, Figure 1 is a perspective view of a feeder constructed in accordance with my invention. Fig. 2 is a vertical transverse section of the same. Fig. 3 is a vertical longitudinal section showing the water-tank inverted.

Similar numerals of reference indicate corresponding parts in all the figures of the drawings.

1 designates a base which is adapted to rest upon the surface of the ground or poultry-house, and 2 represents a feed receptacle or reservoir which is of prismatoidal and preferably cross-sectionally hexagonal construction, a parallel-sided throat or extension 3 communicating with and depending from the lower side of the receptacle or reservoir. The heads of the receptacle or reservoir are extended to form the ends 4 of said parallel-sided throat or extension, and these end walls of the throat or extension are provided with inverted-V-shaped notches 5 for the reception of an inverted-V-shaped deflector 6, forming a part of a vertically-adjustable double feed-trough 7. In the construction illustrated in the drawings this feed-trough is constructed, essentially, of a single sheet of metal upturned at its lateral edges and rounded to form the side troughs 7^a and 7^b and extended upward between said troughs to form the deflector 6, which projects upward

into the throat or extension in the plane of the longitudinal center thereof.

The end walls of the troughs are formed by the vertical plates 8, which are spaced apart an interval corresponding with the length of the receptacle or reservoir and are adapted to bear against the exterior surfaces of the ends of the throat or extension. These end plates thus form guides to prevent longitudinal vibration and displacement of the troughs.

To prevent lateral vibration and displacement of the troughs, I employ longitudinal guide-rods 9, connecting the end plates slightly above the plane of the outer edges of the troughs and contiguous to the outer side surfaces of the throat or extension. Said guide-rods prevent deflection or bending of the end plates, and by operating in contact with the side surfaces of the throat insure the accurate vertical movement of the troughs when the latter are operated by means hereinafter described. The guide-rods perform the further function of combining with transverse wires 10 to form stalls which prevent poultry from scratching the contents of the troughs and thus scattering the feed. Said transverse wires extend from the guide-rods to the outer edges of the troughs.

The base is preferably provided with an opening 11, which is equal in area with the combined troughs, whereby when the troughs are lowered they are received in said opening, and in this way the outer edges of the troughs may be arranged in the plane of the upper surface of the base to provide for small poultry reaching the feed without mounting to the edge of the trough.

The means which I employ for vertically adjusting the troughs includes the standards 12, secured at their lower ends to the base and preferably consisting of looped rods having bearing-eyes formed at their upper extremities, and screw-rods or adjusting-screws 13, mounted in said bearings and threaded in nuts 14, fixed to the outer surfaces of the end plates of the troughs. These screw-rods are preferably provided above the bearing-eyes with collars 15 and at their upper extremities with rings or handles 16. By turning the screw-rods the troughs may be lowered into the opening in the base sufficiently

to form spaces between the lower edges of the sides of the throat and the bottoms of the troughs to allow feed in the receptacle or reservoir to pass down into the troughs or
 5 elevated sufficiently to bring said lower edges of the side walls of the throat in contact with the bottoms of the troughs to cut off the supply of feed.

Inasmuch as the throat or extension depending from the lower side of the receptacle or reservoir is of less width than the receptacle or reservoir, the side walls of said throat being arranged at equal distances upon opposite sides of the longitudinal center of the
 10 receptacle or reservoir, the contiguous inclined sides 17 of the receptacle or reservoir overhang the troughs and thus prevent rain from entering the latter and injuring the feed. Furthermore, the top of the receptacle or reservoir is extended to form flanges or eaves
 15 18, and the hinged lid or cover 19 is made of sufficient width to overlap the contiguous surfaces of the top or roof and prevent the admission of moisture. Said lid or cover may be secured in its closed position by any suitable means, such as a hook 20 engaging an
 20 eye 21 on the undersurface of the lid or cover.

Secured at their ends to two of the standards by which the receptacle or reservoir is
 25 supported are the horizontal supporting-rods 22, terminating in uprights 23, which are stepped in the base, integral bearing-eyes 24 being formed at the junction of said supporting rods and legs for the reception of the
 30 trunnions 25 of a reversible water-tank 26. This water-tank is approximately cylindrical in construction, with a communicating trough 27, the trough communicating with the tank by means of outlet-openings 28 and superja-
 35 cent air-vents 29. When the water in the trough falls below the level of the vents 29, air is admitted to the interior of the tank to allow the escape of sufficient water to raise the level in the trough above the plane of the
 40 vents. When the vents are closed, the water is checked by atmospheric pressure. Furthermore, the bottom of the tank is straight and in the plane of the bottom of the trough, and inasmuch as the tank and trough are
 45 held in their operative position, as shown in Fig. 1, by the outer edge of the bottom of the trough resting upon the upper surface of the base it is obvious that the bottom of the trough and the contiguous flat portion of the
 50 tank will be at an inclination downward toward the outer side of the trough to insure all of the contents of the tank passing into the trough.

When it is desired to fill the tank, it may
 55 be inverted, as shown in Fig. 3, in which the upper edges of the trough rest upon the supporting-rods, the inlet-opening of the tank being uppermost and communicating with a feed-tube 30, which is arranged transversely
 60 in the tank and terminates contiguous to the normal upper side thereof, whereby when the tank is arranged in its normal position the

extremity of said tube is above the level of the contents of the tank. This inlet-opening is fitted with a removable plug or stopper
 65 31 and is surrounded by a groove or funnel 32.

From the above description it will be seen that the operation of the vertically-movable troughs to adjust the opening between the
 70 lower edges of the side walls of the throat and the bottoms of the troughs to suit the size of grain contained in the receptacle or reservoir may be accomplished with facility, and that after the receptacle or reservoir has
 75 been filled the feed passes downward into the troughs as the contents of the latter are consumed.

It will be seen, furthermore, that the feeder is accessible from both sides, and that the scattering of grain by the poultry is prevented
 80 by the guards which divide the exposed portions of the troughs into stalls.

Various changes in the form, proportion, and the minor details of construction may be resorted to without departing from the spirit
 85 or sacrificing any of the advantages of this invention.

Having described my invention, what I claim is—

1. The combination of a feed receptacle or
 90 reservoir having a depending parallel-sided and parallel-ended throat, looped standards arranged at the ends of and supporting the receptacle, and provided with central bearing-eyes, vertically-adjustable connected troughs
 95 accessible at opposite sides arranged under the throat and adapted to be elevated to bring the floors of the troughs in contact with the lower edges of the side walls of the throat, terminal parallel guide-plates forming the
 100 ends of the troughs and extended upwardly above the same to operate in contact with the outer surfaces of the end walls of the throat, longitudinal guide-rods connecting said extensions of the guide-plates to prevent spread-
 105 ing thereof, and operating in contact with the outer surfaces of the side walls of the throat to prevent lateral vibration of the troughs, and adjusting-screws mounted in said bearing-eyes and having collars to rest thereon,
 110 said screws engaging nuts fixed to the end walls of the trough and extending at their upper ends through the roof of the receptacle, substantially as specified.

2. A reversible cylindrical tank having ter-
 115 minal axial trunnions mounted in suitable supporting-bearings, a vertical filling-tube communicating with a normally-plugged opening in the lower side of the tank and extending approximately to the upper side
 120 thereof, and a trough attached to and carried by the tank and communicating with the interior of the tank by means of outlet-openings arranged below the plane of the upper
 125 edge of the trough, whereby said openings are adapted to be submerged to prevent the over-
 130 flow of the trough, substantially as specified.

3. The combination of uprights and contiguous horizontal supporting-rods having bear-

ings at their intersections, a reversible tank
having terminal trunnions mounted in said
bearings and provided in its bottom with a
normally-closed filling-opening and a trough
5 carried by and communicating with the tank,
the communication with the tank being es-
tablished by means of outlet-openings contig-
uous to the plane of the bottom of the trough
and superjacent air-vents, and said trough
10 extending at its ends beyond the correspond-

ing extremities of the tank to bear upon the
supporting-rods when the tank is inverted,
substantially as specified.

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

ORLANDO F. JOHNSON.

Witnesses:

JAMES V. WRIGHT,
JOSEPH C. PARKER.