

No. 874,980.

PATENTED DEC. 31, 1907.

E. McGLINCHAY.  
STOCK FEEDING APPARATUS.

APPLICATION FILED MAR. 1, 1907.

2 SHEETS—SHEET 1.

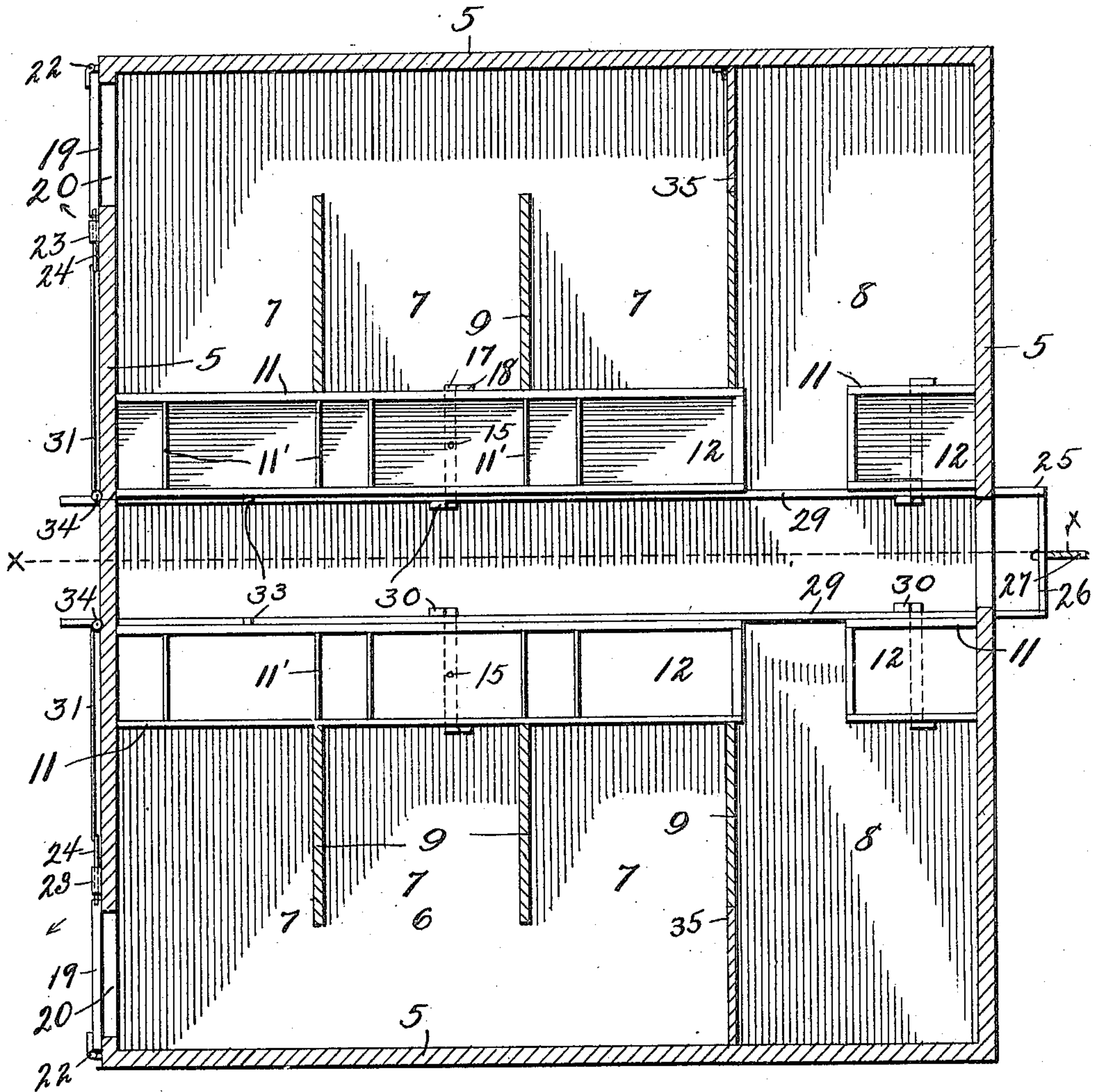
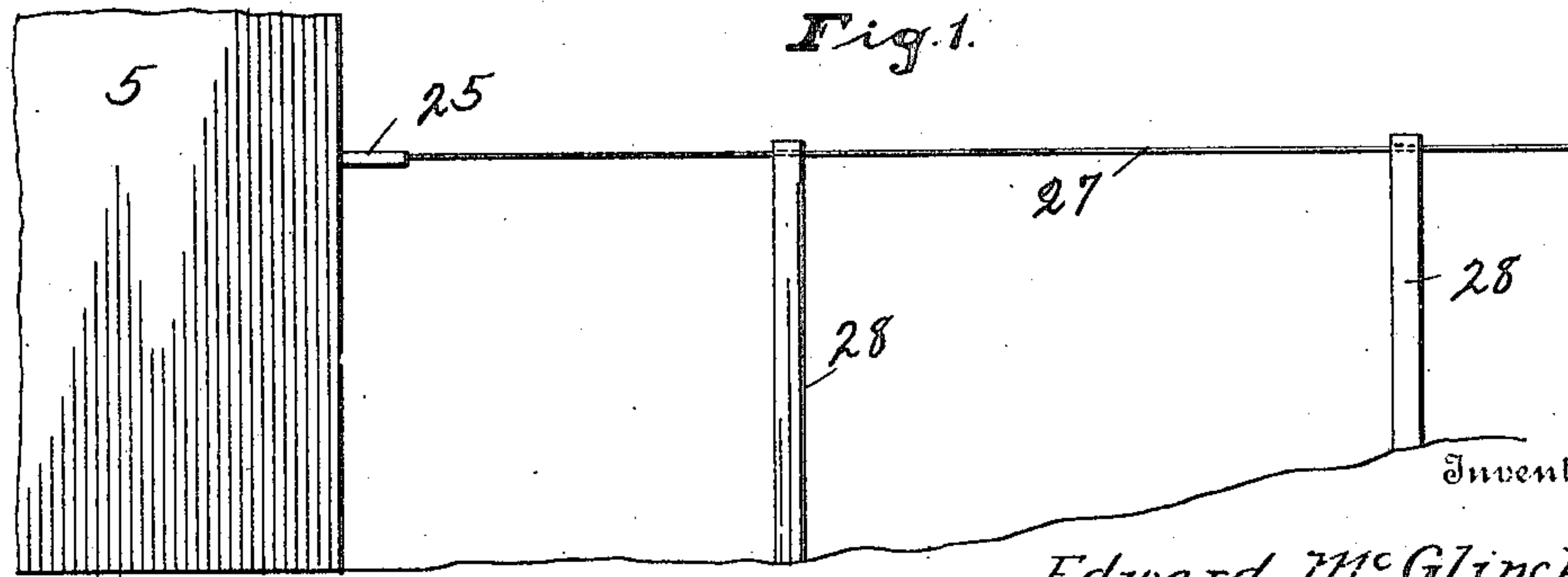


Fig. 1.



Witnesses

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Fig. 5.

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2 SHEETS—SHEET 2.

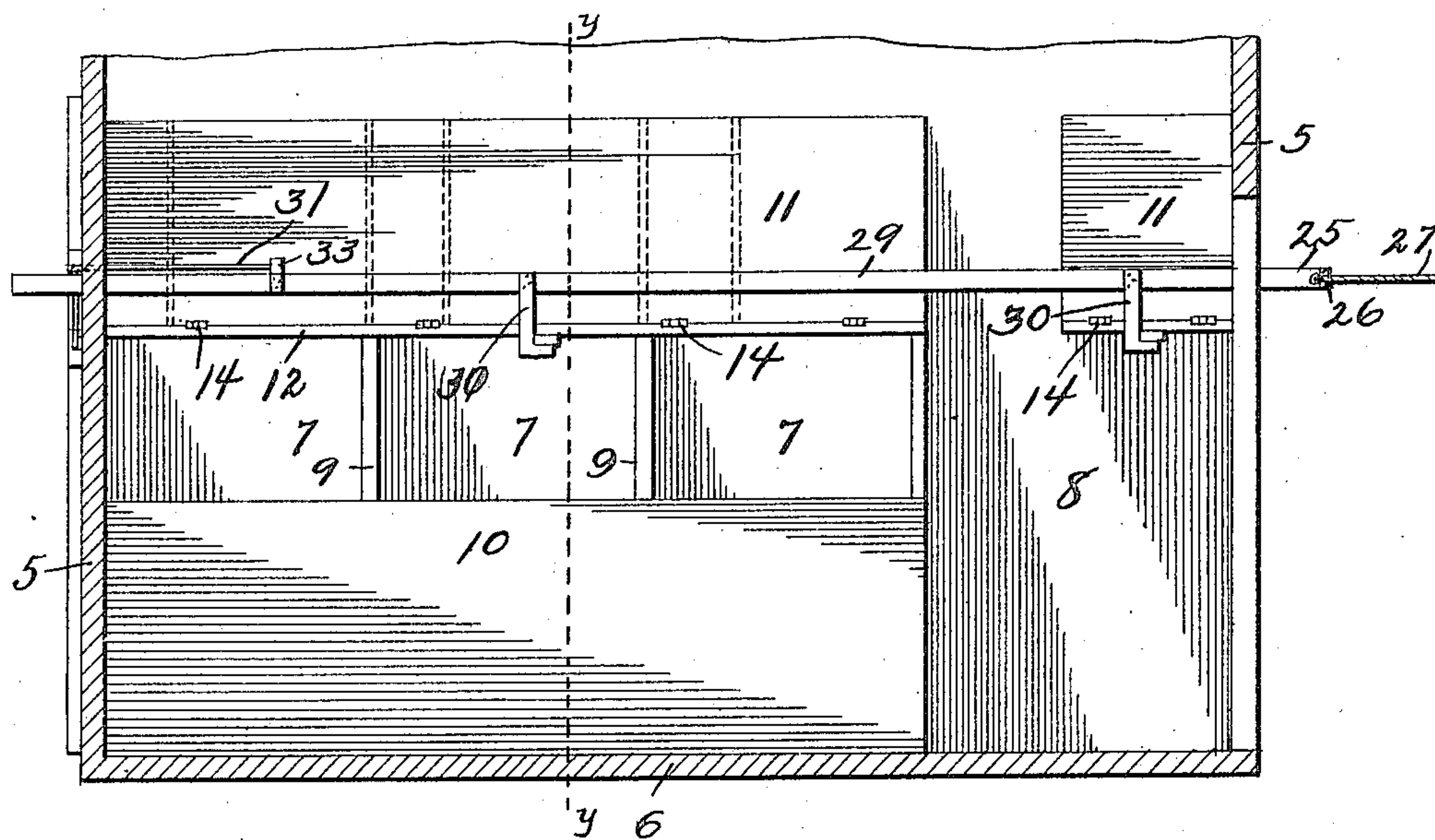


Fig. 2.

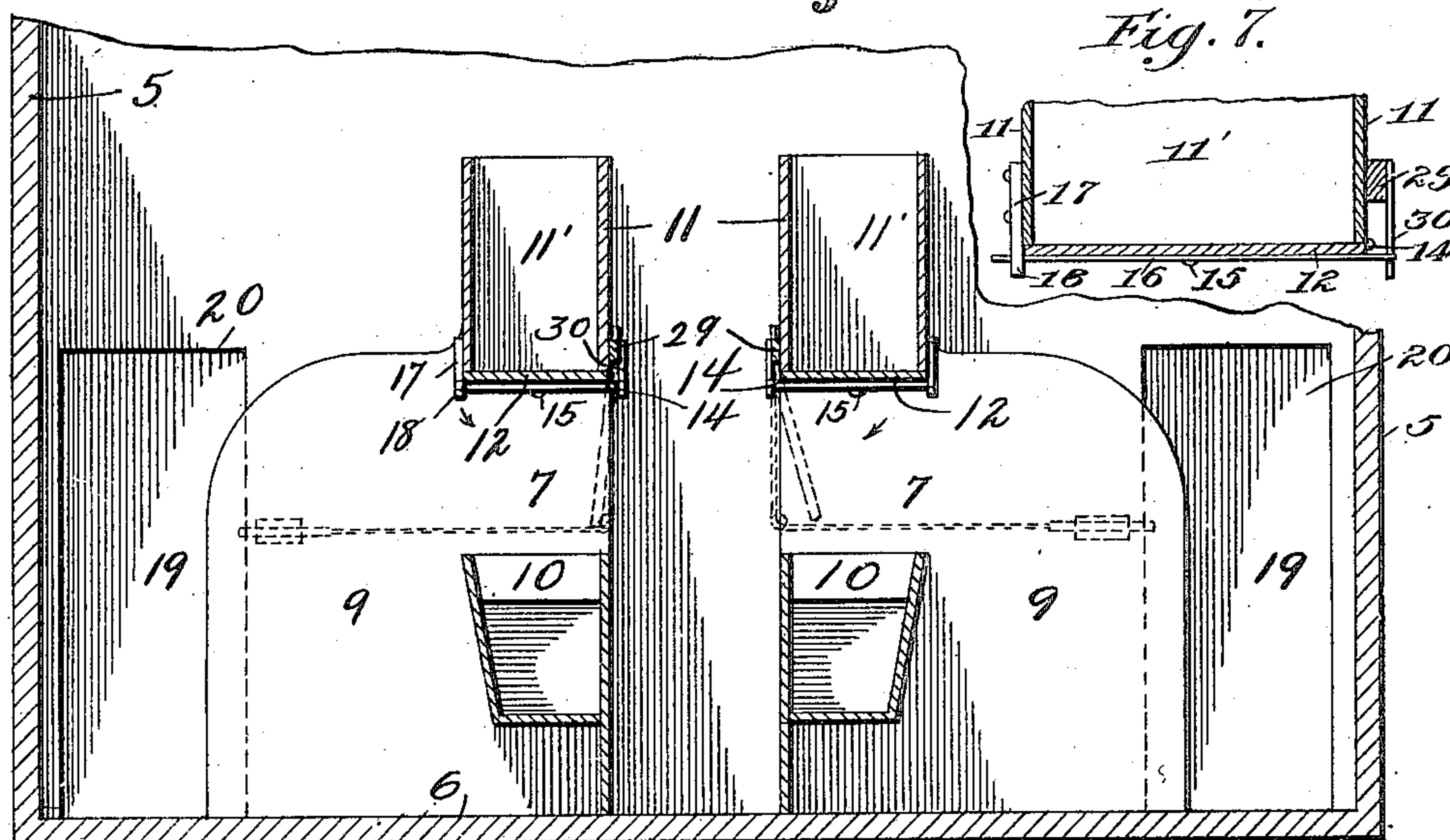
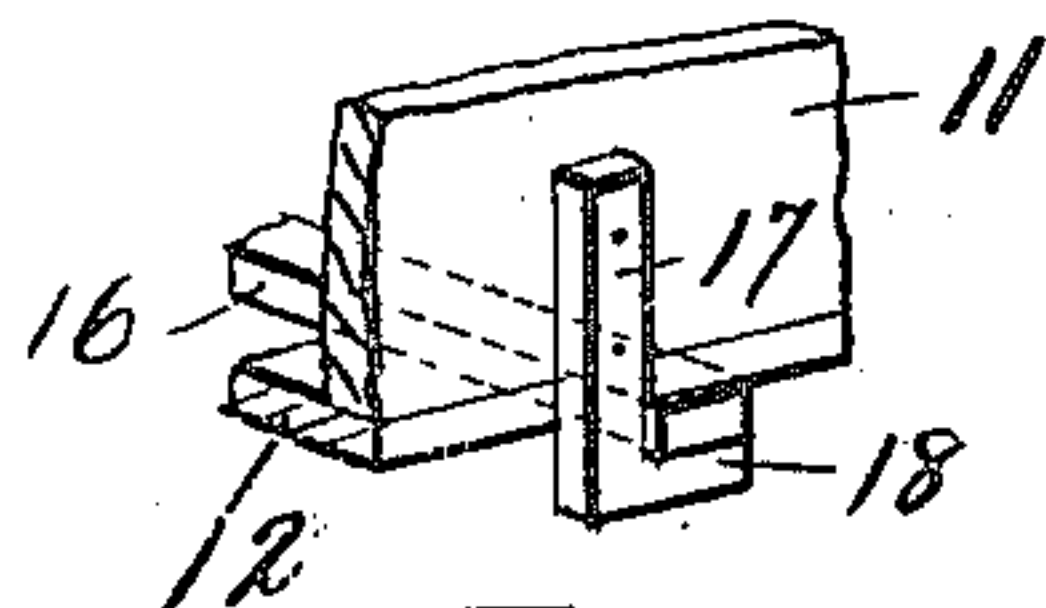


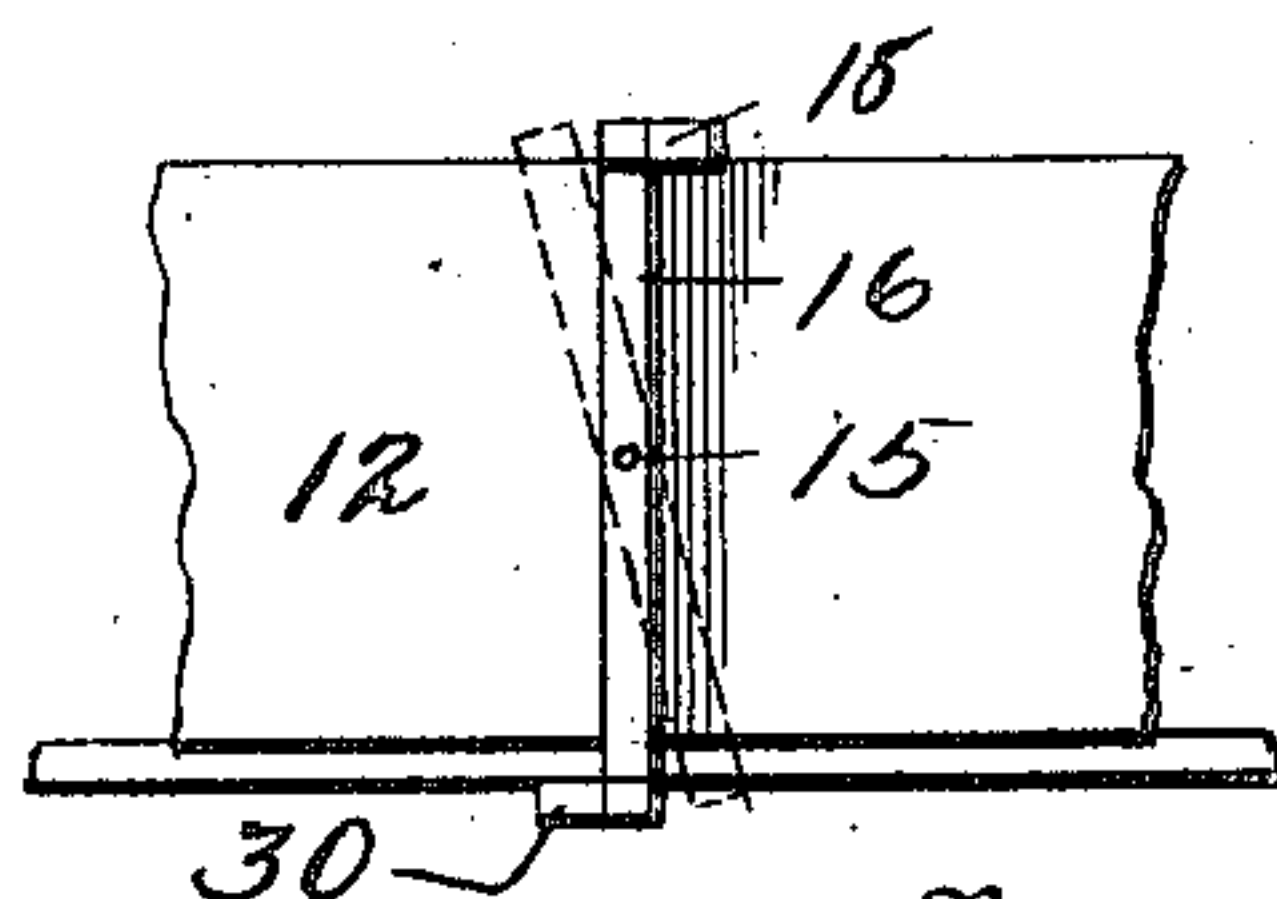
Fig. 7.



*Fig. 6.*

Witnesses

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By  
Fig. 4

Fig. 3.

Inventor

Edward M<sup>c</sup> Glinchay

Attorney,



# UNITED STATES PATENT OFFICE.

EDWARD McGLINCHAY, OF GALLOWAY, OHIO.

## STOCK-FEEDING APPARATUS.

No. 874,980.

Specification of Letters Patent.

Patented Dec. 31, 1907.

Application filed March 1, 1907. Serial No. 359,975.

*To all whom it may concern:*

Be it known that I, EDWARD McGLINCHAY, citizen of the United States, residing at Galloway, in the county of Franklin and State of Ohio, have invented certain new and useful Improvements in Stock-Feeding Apparatus, of which the following is a specification.

My invention relates to stock feeding apparatus and has for its object, the provision of a feeding mechanism adapted to be located in a barn and controllable from a distant station, as from a farm-house, in such manner that the stock may be fed by operating mechanism from said farm-house.

A further object of the invention is the provision of apparatus of this character located within a barn and controllable from a distant station, the doors of the barn likewise being controllable from said distant station, by virtue of which feed may be emptied into mangers within the barn and the doors opened to permit stock to enter said barn, from a distant point.

Further objects and advantages of the invention will be set forth in the detailed description which now follows.

In the accompanying drawings: Figure 1 is a horizontal section through a barn which has been equipped with my improved stock feeding devices, Fig. 2 is a central vertical section upon line  $x-x$  of Fig. 1, Fig. 3 is a transverse section upon line  $y-y$  of Fig. 2, Fig. 4 is an underside view of one of the feed bins hereinafter described, Fig. 5 is a detail view of the arrangement of an actuating cord, Fig. 6 is a detail perspective view of a latch hereinafter described, and Fig. 7 is an enlarged detail sectional view of one of the bins, hereinafter described.

Like numerals designate corresponding parts in all of the figures of the drawing.

Referring to the drawings, the numerals 5 designate the vertical walls of a barn and 6 designates the floor of said barn. Stalls 7 and pens 8 are formed within said barn, by partitions 9. Located within the stalls 7 are mangers 10 and located directly above these mangers are feed bins formed by side walls 11, which may be divided into any desired number of sections to receive various kinds of feed, by partitions 11'. The bottoms of these bins are closed by swinging doors 12, these bins being arranged upon opposite sides of a central passage-way 13, though they may be otherwise arranged if desired. These doors are hinged as at 14 to swing downwardly in the

direction of the arrows. Pivoted centrally at 15 to the lower faces of these doors are latch bars 16. L-shaped blocks 17 are secured to the outside walls 11 of the bins (see Fig. 6) and when the ends of the latch bars 16 engage over the horizontal extensions 18 of these L-shaped bars, the doors 12 are held in an elevated position to close the bottoms of the feed bins, as will be readily understood. The ends of the latch bars 16 project beyond the outer edges of the feed bins, to be engaged by a releasing device as will be hereinafter described.

Doors 19 (see Fig. 1) serve to close the passage ways 20 into the barn. These doors are hinged as at 22 to swing outwardly in the direction of the arrows. These hinges 22 are ordinary spring hinges such as are in every-day use for causing doors to move in one direction, these hinges normally tending to open the doors. Slidably disposed in keepers 23 are bolts 24 which are adapted to engage the doors to hold them closed against the tension of the spring hinges.

The mechanism for releasing the doors that close the feed bins will now be described. This mechanism consists of a yoke 25. Secured to the cross bar 26 of this yoke is a cord or wire 27 which is supported upon posts 28 (see Fig. 5), and extends to a farm-house or other distant station. The side members 29 of the yoke extend along the inside faces of the feed boxes and carry extensions 30, the lower ends of which are adapted to engage the latch bars 16 to swing said latch bars out of engagement with the ends 18 of the block 17 to permit the doors 12 to drop. Flexible connections 31 are secured to the side members 29 of the yoke, at 33, said connections passing over rollers 34 and being secured to the bolts 24.

The operation of the device is as follows: The stockman or farmer, places the character of feed designed to enter the various mangers, in the feed bins at the close of the day's work, the latch bars 16 being hooked into engagement at this time, with the ends 18 of the block 17, to hold the doors 12 in an elevated position. If the weather be mild and it be desired to leave the stock out over night, the doors are closed and the bolts 24 are slipped into position to hold them closed. Upon awakening the next morning, it is but necessary for the stockman or farmer to pull upon the cord or wire 27 to impart longitudinal movement to the yoke 25. When this



is done, the extensions 30 throw the latch bars 16 into such position as to release the doors 12. These doors dropping, precipitate the feed into the various mangers. At the same time longitudinal movement of the yoke will, through the connections described, withdraw the bolts 24 from engagement with the doors 19 and permit said doors to fly open. The animals may then enter their respective stalls to feed. If the weather be severe, however, and it be desired to keep the animals under shelter over night, the doors may be closed with the animals inside the barn and the present structure then provides means for turning them out in the morning, without leaving the house, as well as for feeding them. The feed bins over the pens 8 are adapted to receive feed suitable for hogs or the like, or these pens may be used to keep calves penned in or for any other purpose. Entrance to these pens may be had through doors 35 arranged inside of the barn, or these doors may be formed in the outside walls of the barn.

From the foregoing description, it will be seen that simple and efficient means are herein provided for accomplishing the objects of the invention, but while the elements shown and described are well adapted to serve the purposes for which they are intended, it is to be understood that my invention is not limited to the precise construction set forth, but includes within its purview such changes as may be made within the scope of the appended claims.

What I claim is:

1. In a device of the character described, the combination with a plurality of feed

bins, of doors hinged to said feed bins and adapted to form bottoms therefor when closed, latches pivoted to said doors and extending across said doors, fixed members adapted to be engaged by said latches to support the doors in their closed positions, a rigid member bodily movable with relation to the bins and carrying a plurality of members which are adapted to engage and actuate the latches, and a flexible member secured to said rigid member for actuating said rigid member from a distant station.

2. In a device of the character described, the combination with a plurality of feed bins, of doors hinged to said feed bins and adapted to form bottoms therefor when closed, latches pivoted to said doors and extending across said doors, fixed members adapted to be engaged by said latches to support the doors in their closed positions, a rigid member bodily movable with relation to the bins and carrying a plurality of members which are adapted to engage and actuate the latches, a flexible member secured to said rigid member for actuating said rigid member from a distant station, an inclosure for said bins, the walls of said inclosure supporting said bodily movable member, a door for said inclosure, and a flexible member connected to said bodily movable member for releasing said door.

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

EDWARD McGLINCHAY.

Witnesses:

A. L. PHELPS,  
L. CARL STOUGHTON.