

S. A. MOREHOUSE.
DISTRIBUTING SPOUT.
APPLICATION FILED MAR. 6, 1908.

907,848.

Patented Dec. 29, 1908.

Fig - 1 -

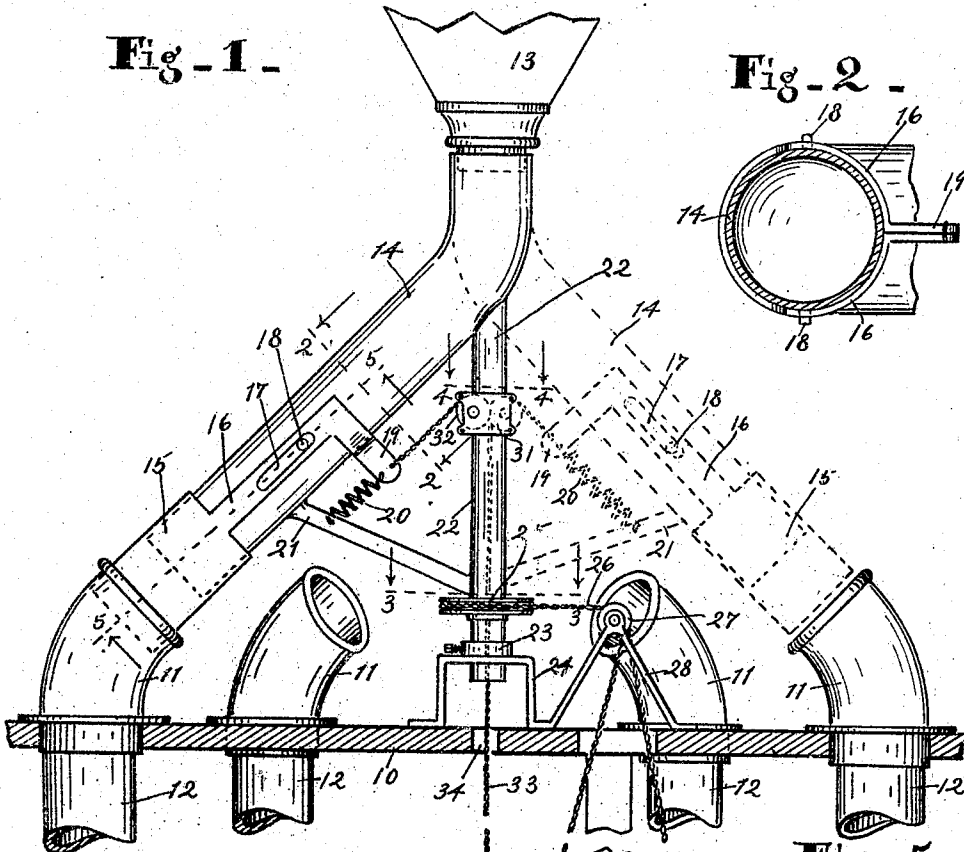


Fig - 2 -

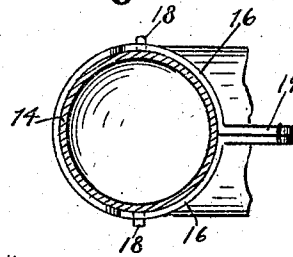


Fig - 3 -

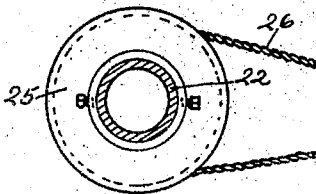


Fig - 4 -

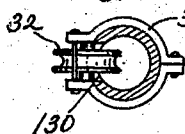
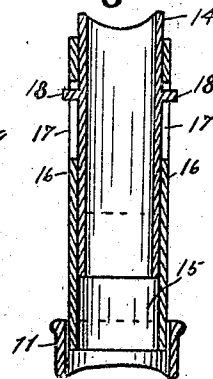


Fig - 5 -



WITNESSES:

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UNITED STATES PATENT OFFICE.

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DISTRIBUTING-SPOUT.

No. 907,848.

Specification of Letters Patent.

Patented Dec. 29, 1908.

Application filed March 6, 1908. Serial No. 419,437.

To all whom it may concern:

Be it known that I, SAMUEL A. MOREHOUSE, of Ashgrove, county of Tippecanoe, and State of Indiana, have invented a certain new and useful Distributing-Spout; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, in which like letters refer to like parts.

The object of this invention is to improve the construction of distributing spouts for distributing grain and the like from the elevator or other supply.

It is particularly adapted for distributing grain from one central supply to a number of bins, and the distributing spout is so arranged that it can be moved into communication with any one of a number of pipes or chutes leading to different bins. I do not wish the invention, however, limited to use in distributing grain.

The chief feature of the invention for accomplishing the object mentioned is the combination with a telescopic spout mounted in an inclined position and revoluble or oscillatory, of means extending up through or in axial line with the revoluble or oscillatory support for the spout for shortening or withdrawing the telescopic spout from one bin pipe or hopper to another. Thus the device may be adapted to be oscillated or revolved into communication with a number of hoppers or bin pipes and yet the means for shortening the spout will always be in the same position and equally accessible at all times for operation.

The general nature of this invention will be understood from the accompanying drawings and the following description and claims:

In the drawings Figure 1 is a side elevation of the distributing spout and a number of hoppers and pipes leading to bins, with the floor or means for supporting the same in vertical section, parts being broken away and the changed position of parts shown by dotted lines. Fig. 2 is a section on the line 2—2 of Fig. 1 through the distributing spout. Fig. 3 is a section on the line 3—3 of Fig. 1. Fig. 4 is a section on the line 4—4 of Fig. 1. Fig. 5 is a section on the line 5—5 of Fig. 1.

A floor or other support 10 has mounted in it a number of hoppers 11 in communication with pipes 12 leading to various bins into which it is desired to distribute the grain

from some source of supply in communication with the hopper 13, from which a distributing pipe 14 leads. The various hoppers 11 are arranged around a common center and in a circle so that the distributing spout 14 which extends down from the hopper 13 at an inclination may, by being revolved, be brought in line and in communication with any one of said hoppers 11.

The distributing spout 14 has a telescoping section 15 on the lower end thereof, consisting of a short tube having a pair of parallel arms 16 slotted at 17 to reciprocate on the pins 18 from opposite sides of the spout 14, and the upper ends of arms 16 are turned at a right angle and extend beyond the spout 14 and are united, as seen in Fig. 2, yoke-like to form the combined arm 19, from which the spring 20 extends to a brace 21 connected with spout 14. This spring 20 tends to force the telescopic section downwardly to lengthen the spout.

The spout 14 is mounted on a tubular support 22 rotatably, said support being co-axial with the upper end of the spout 14 and being carried by the collar 23 that is secured to it and which rests upon the elevated rectangular frame 24 that is secured upon the floor 10. The brace 21 extends from the spout 14 to said support 22 so that the spout 14, the brace 21 and the support 22 are rigidly secured together and revolve together. They are revolved or oscillated by a sheave wheel 25 that is horizontally secured on the support 22 and is actuated by the cable 26 that runs over a pulley 27 on the frame 28 that is mounted on the floor 10, and from said pulley to a pilot wheel 29 that is mounted below on the upright 30.

The tubular support 22 is cut away at one side and has a band 31 around it that carries a pulley 32 over which a cord 33 passes that at one end is secured to the combined end 19 of the arm 16 from the telescopic member 15 and from said pulley 32 said cord 33 extends down through the tubular support 22 and a hole 34 in the floor to some accessible point for operation.

In operation when it is desired to move the distributing spout from one hopper 11 to another, the cord 33 is drawn downwardly to disengage the telescopic member 15 of the distributing spout from a hopper and while in that position the pilot wheel 29 is operated, whereby the distributing spout is

swung around to the desired hopper. The operator determines the proper position of the spout with reference to the desired hopper by numbered blocks 36 on the pilot wheel 5 29 corresponding with the spouts 11 and bin pipes 12 and adapted to be engaged and locked by a releasable spring actuated latch 37. The distributing spout will be in registry with the hopper that corresponds in 10 number with the block that is engaged by the latch 37. To that end the hoppers and bin pipes are numbered from 1 up and likewise the blocks 36, as indicated in the drawings.

What I claim as my invention and desire 15 to secure by Letters Patent is:

1. A distributing spout that is telescopic with its upper end vertical and revoluble and the lower part inclined downwardly, a tubular support for said spout that is vertical and 20 co-axial with the upper end thereof, a pulley mounted in connection with said tubular support, and a cord connected with the telescopic portion of said spout and passing over said pulley and extending down through said 25 tubular support.

2. A distributing spout that is telescopic, the upper and main member thereof being vertical at its upper end and revoluble, with the lower portion thereof inclined downwardly and provided with a pair of oppositely located pins and the telescopic member thereof being guided by said pins and provided with an arm extending away from said tube, a tubular support for said spout that is 35 vertical and co-axial with the upper end

thereof, a diagonal brace between said support and the lower part of the upper member of said spout, a spring connecting said brace and the arm from the telescopic member of said spout, a pulley in the upper part of said 40 telescopic support, and a cord extending from the arm of the telescopic member and from said pulley and down through said tubular support.

3. A revoluble distributing spout, a series of hoppers arranged in circular position, a vertical revoluble support for said spout located in the center of the series of hoppers, a pulley on said support, a pilot wheel, and a cable extending from said pulley to the pilot 45 wheel for revolving the spout.

4. A revoluble distributing spout, a series of hoppers arranged in circular position, a vertical revoluble support for said spout located in the center of the series of hoppers, a 50 pulley on said support, a pilot wheel, a cable extending from said pulley to the pilot wheel for revolving the spout, said spouts being numbered, blocks on the pilot wheel corresponding with said spouts and similarly numbered for locking said pilot which indicates 60 the number of the hopper to which the spout has been moved.

In witness whereof, I have hereunto affixed my signature in the presence of the witnesses 65 herein named.

SAMUEL A. MCKENHOUSE.

Witnesses:

GEORGE JACKSON,
JOHN A. McLEAY.