No. 853,750. PATENTED MAY 14, 1907.

E. WHORRALL.

GRAIN CONVEYER.

APPLICATION FILED FEB. 26, 1907.

Fig. 1.

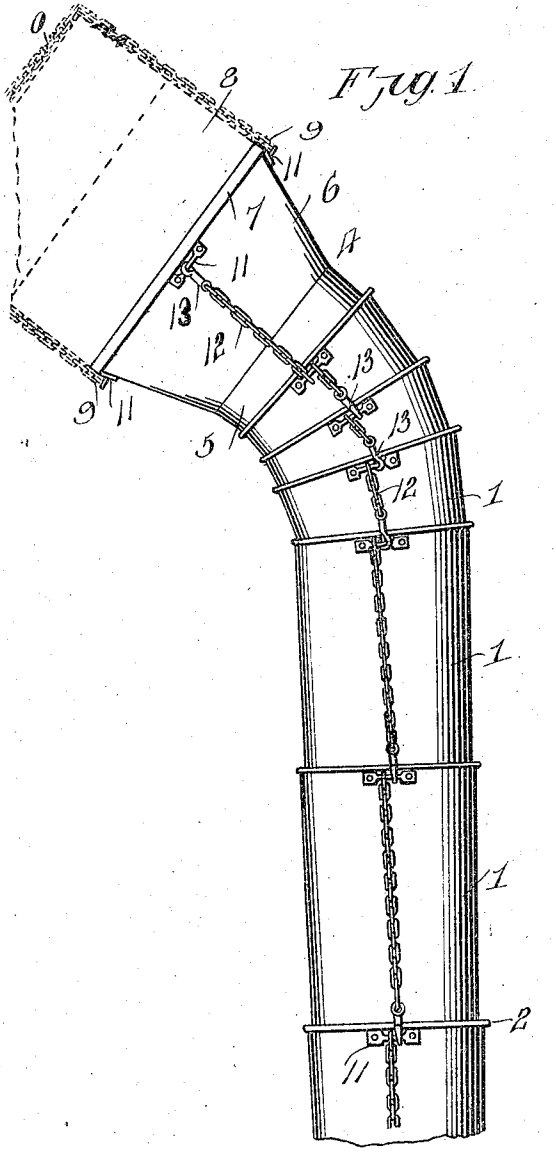


Fig. 2.

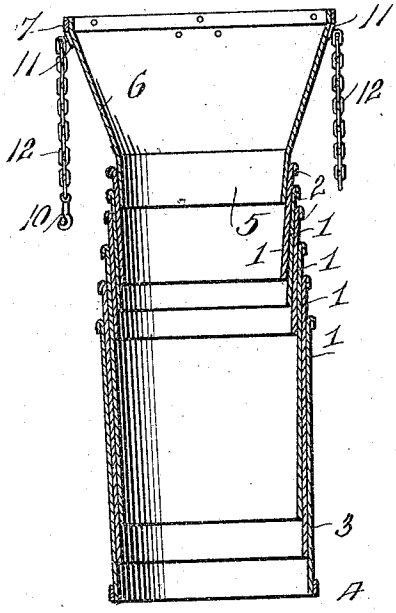


Fig. 3.

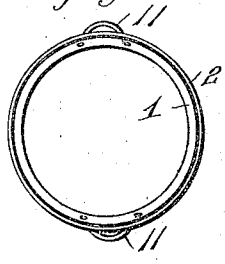
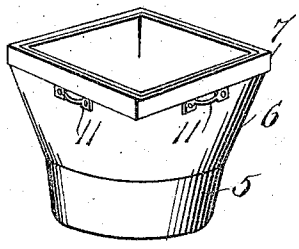


Fig. 4.



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GRAIN-CONVEYER.

No. 853,750. Specification of Letters Patent. Patented May 14, 1907.

Application filed February 26, 1907. Serial No. 359,355.

To all whom it may concern:

Be it known that I, EDWIN WHORRALL, a citizen of the United States, residing at Loda, in the county of Iroquois and State of Illinois, have invented new and useful Improvements in Grain-Conveyers, of which the following is a specification.

This invention relates to spouts or conveyers for conveying grain, ear corn and the like; and it has for its object to provide a device of this class which shall be particularly adaptable for the purpose of conveying ear corn from a portable elevator to a crib or bin; the particular object of the invention being to so construct the spout or conveyer that all parts of the crib or bin may be reached with equal facility.

With these and other ends in view which will readily appear as the nature of the invention is better understood, the same consists in an improved construction of a flexible or jointed spout or conveyer; the invention further consists in the improved construction and novel arrangement and combination of parts which will be hereinafter fully described and particularly pointed out in the claims.

In the accompanying drawings has been illustrated a simple and preferred form of the invention; it being, however, understood that no limitation is necessarily made to the precise structural details therein exhibited, but that changes, alterations and modifications within the scope of the invention may be resorted to when desired.

In the drawing, Figure 1 is a side elevation of a grain conveyer constructed in accordance with the principles of the invention, showing the said conveyer extended for use. Fig. 2 is a transverse sectional view showing the conveyer detached, and in a collapsed or folded condition. Fig. 3 is a detail plan view of one of the sections of the improved conveyer. Fig. 4 is a perspective detail view showing the uppermost or top section, detached.

Corresponding parts in the several figures are denoted by like characters of reference.

The improved conveyer is composed of a plurality of tubular sections or members 1—1 of tubular form, said sections being slightly tapering from their upper in the direction of their lower ends. Each of said sections is provided at its upper edge with a reinforcing bead 2 and the lowermost section which is specially designated by the numeral 3 is provided at its lower edge with an annular reinforcing band 4, as will be seen in Fig. 2 of the drawings. In addition to the sections 1—1 and 3 there is a specially constructed top section 4 having a tapering tubular portion 5 and a square or rectangular hopper shaped extension 6 which is reinforced at its upper edge as shown at 7. The hopper shaped portion of the top section 4 is adapted for engagement with the discharge hood 8 of a portable elevator of ordinary construction upon which it may be secured in operative position by means of chains 9—9 connected with opposite sides of the hopper 6, one of said chains being provided with a snap hook 10 whereby the chains may be connected so as to support the device in position upon the elevator.

Each of the sections 1, 3 and 4 is provided adjacent to its upper edge, on diametrically opposite sides, with loops 11 having chains 12 connected therewith, each of said chains being provided with a terminal snap hook 13 whereby the several sections may be detachably connected by placing the said snap hooks in engagement with the loops 11 as will be clearly seen by reference to Fig. 1 of the drawings.

The sections 1—1 of the improved conveyer may be made of any desired length, but it will be seen that some of the conveyer sections, adjacent to the uppermost sections, are comparatively short; this being for the purpose of enabling the uppermost portion of the conveyer to flex readily in order that the material passing through the conveyer may be discharged in various directions.

The operation and advantages of this invention will be readily understood from the foregoing description taken in connection with the drawings hereto annexed. The improved conveyer may be very conveniently connected with a portable elevator or with the discharge hood of an elevator of ordinary construction, and the connection may be effected by the means herein described, in such a manner that the spout may be conveniently extended in various directions. The entire conveyer spout but especially that portion thereof which is adjacent to the uppermost section 4, is readily flexible, and material passing through the spout may thus be discharged in any desired direction. The various sections also have a swiveling movement with relation to each other which is effected in distributing the

wear of the device so that all parts will wear equal, and the life of the device will thus be increased. When not in use, the improved conveyer spout may be collapsed into small compass and it may be conveniently stored or transported.

Having thus fully described the invention, what I claim as new is:—

A device of the class described, comprising a plurality of slightly tapering cylindrical sections each provided adjacent to its upper edge with diametrically opposite loops, and chains connected with said loops and having terminal snap hooks; the uppermost section being provided with a rectangular hopper shaped extension having chains connected with the four sides thereof, two of said chains being connected with the loops of the subjacent cylindrical section, and one of the remaining chains being provided with means whereby it may be adjustably connected with the opposite chain for the purpose of suspending or supporting the conveyer in position for operation.

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

EDWIN WHORRALL.

Witnesses:
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