

No. 608,585.

Patented Aug. 9, 1898.

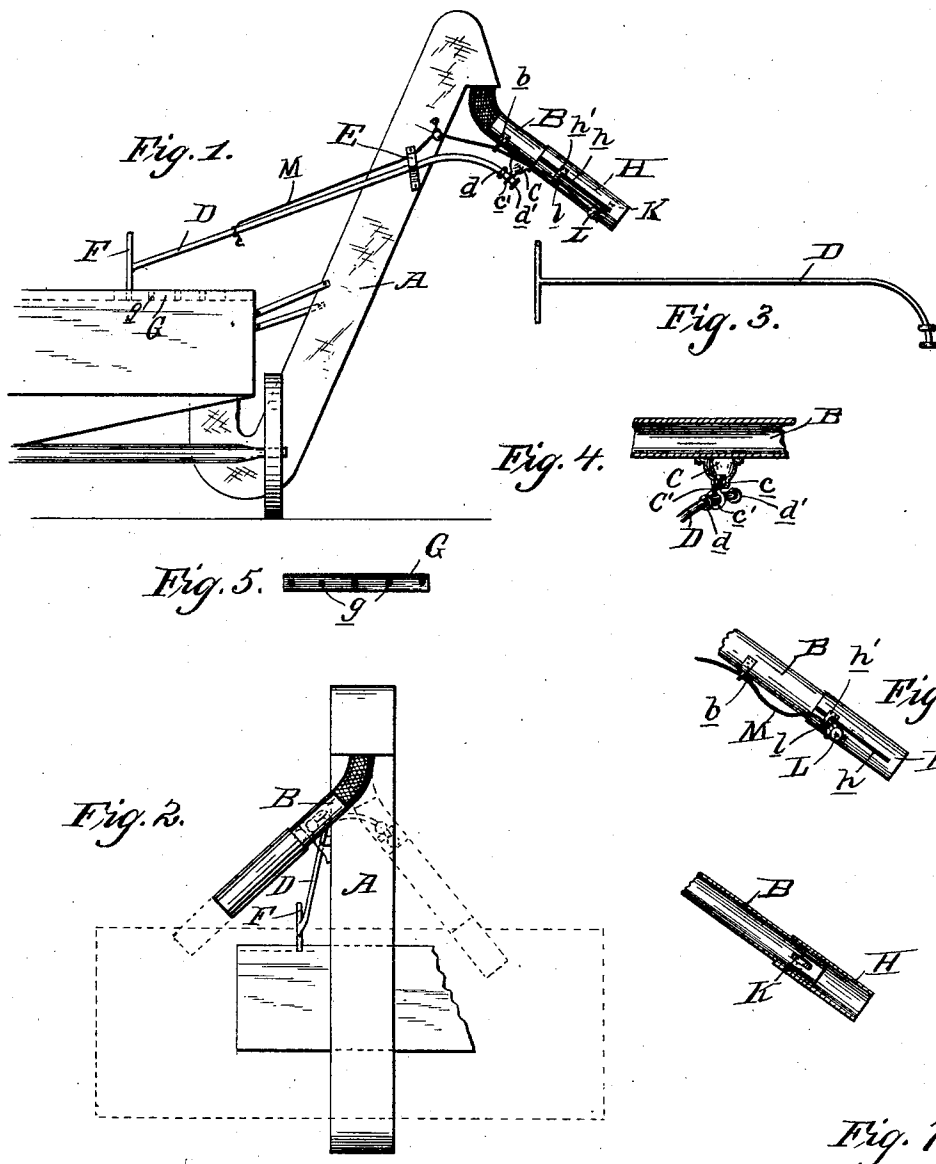
W. C. DENTLER.

ADJUSTING MEANS FOR DELIVERY SPOUTS.

(Application filed Sept. 21, 1897.)

(No Model.)

2 Sheets—Sheet 1.



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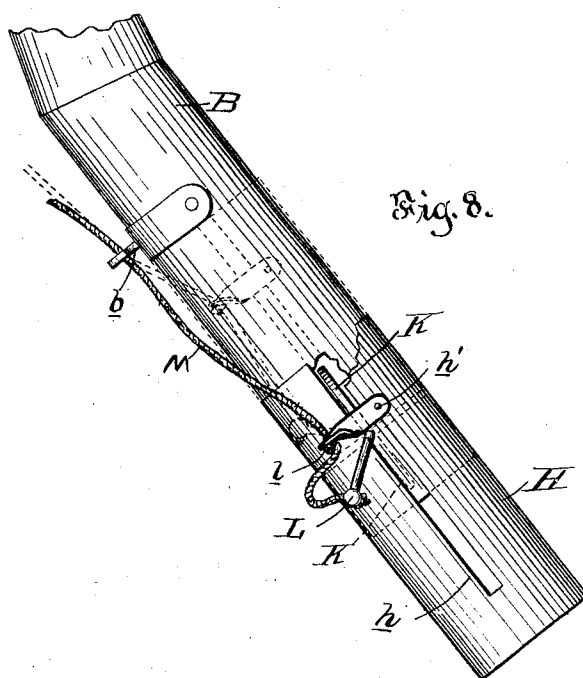
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UNITED STATES PATENT OFFICE.

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ADJUSTING MEANS FOR DELIVERY-SPOUTS.

SPECIFICATION forming part of Letters Patent No. 608,585, dated August 9, 1898.

Application filed September 21, 1897. Serial No. 652,475. (No model.)

To all whom it may concern:

Be it known that I, WESLEY C. DENTLER, a citizen of the United States, residing at Eagle, in the county of Cass and State of Nebraska, have invented certain new and useful Improvements in Adjusting Means for Delivery-Spouts; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to an improvement in adjusting means for delivery-spouts, and it is embodied in the construction and arrangement of parts hereinafter described, and definitely pointed out in the claims.

The invention is designed more particularly for use in connection with discharge-spouts of corn-shelling, threshing, or other machines wherein the grain is delivered from the machine directly into a wagon-box or car.

One object of the invention is to provide suitable improved means for changing the position of the spout, so that the grain issuing therefrom can be distributed evenly from end to end of the box.

A further object of the invention is to provide a simple and durable means for effecting both a swinging and raising or lowering movement of the spout, avoiding the use of complicated mechanism, such as pulleys and chains.

Other objects of the invention are to provide an adjustable spout with an adjustable extension which can be moved back out of the way of the grain or wagon-body when the spout is to be adjusted and, further, to provide an adjustable spout with a cut-off which will be actuated when the extension is drawn back.

The objects of the invention are all attained by the construction illustrated in the accompanying drawings, wherein I have shown one form of adjusting devices for convenience of illustrating my invention, although I desire it understood that I do not limit myself to such particular construction.

In the drawings like letters of reference designate corresponding parts in the several views, in which—

Figure 1 designates a side elevation of the adjuster, shown applied to a spout. Fig. 2

is a front elevation showing in dotted lines the different positions of the spout. Fig. 3 is a detail view of the adjusting-rod. Fig. 4 is a detail view of the swivel-bracket. Fig. 5 is a detail view of the securing-plate. Figs. 6 and 7 are respectively a detail elevation and longitudinal section of the end extension. Fig. 8 is an enlarged detail view of the outer end of the spout, showing the cut-off in open position.

In the drawings, A designates an elevator, and B the spout, the same being connected with the elevator, mounted in the usual or well-known manner, so that it may be moved or adjusted to various positions.

Secured to the sides of the spout B is a U-shaped bracket C, the lower portion of which has a pocket or projection *c* formed therein, in which is located the head of a swivel-bolt C'. This bolt has an eye *c'* formed at its lower end, through which the end of the adjusting-rod D passes and is loosely held by the nuts or collars *d d'* on opposite sides of the eye *c'*. These nuts or collars are so arranged that the rod has a limited play or movement in the eye to prevent binding or to permit the end of the rod to assume various positions for adjustment. The special connection just described I have found convenient, but other forms of connection may be employed. The rod is curved at its outer end into substantially a quarter of a circle, while its other portion is straight and carried backward toward the elevator, at which point it passes through a suitable supporting-bracket E, which is secured directly to the side of the elevator-trunk. The inner end of the rod has a cross-piece or handle F thereon, as shown.

On the top of the machine or in any other convenient place adjacent to the end of the handle is an elongated plate G, having a series of perforations *g* therein of a size to receive the ends of the handle.

The operation of this part of the invention is as follows: By turning the rod the spout to which it is attached will be moved correspondingly and in proportion to the extent of rotation of the rod. The peculiar connection between the rod and spout enables the operator to turn the curved end downward, and when it is desired to change the position

of the spout relative to the sides or ends of the box or car it is only necessary to draw in or move the rod out, as the case may be, and to turn the same one-half around. By placing one of the ends of the handle in one of the apertures in plate G the rod is held in its adjusted positions.

While I have shown the perforated plate as a means for locking the rod, I desire it understood that any desirable locking means can be employed. The end of the rod may be offset in any manner or angular instead of curved, and many other minor changes can be made without departing from the nature and principle of the invention. I have shown the ends of the handle F as straight, but they may, however, be slightly hooked, if desired. The slight tilt that they are given, together with the end pressure on the rod D, caused by the weight of the spout, will effectually hold the ends of the handle in the apertured plate.

The end of the spout B is provided with a slidable sleeve H, having an elongated slot h in its side, the same being bridged at its upper end by an eye-bracket h'. Within the end of the spout B is a cut-off K, normally held open by a weighted crank-lever L.

M designates a cord or cable which is attached to the crank L, passes through the eye-bracket h', thence through a bracket b on the spout, over a pulley on the trunk, terminating at a point adjacent the handle of the rod D, around which it is looped. Between the bracket h' and lever L the cord is knotted, as at l, which knot forms a stop to interrupt the movement of the cord through bracket h'.

When it is desired to shift the spout, the operator draws on cord M, the knot or stop engaging bracket h' during the initial movement, while a continued movement draws the sleeve up, as shown in Fig. 1, where it is held by the operator until the shift is completed. The length of the cord between the knot and end which is attached to the crank is such that when the knot strikes the bracket and the extension moved up the cord has moved the lever sufficiently to turn the cut-off at right angles, closing the spout B and preventing any grain from being thrown beyond the receiving-box during the shifting of the spout. I am aware that minor changes of this part of the invention can be made without departing from the nature and principle thereof.

Having thus described the invention, what

is claimed as new, and desired to be secured by Letters Patent, is—

1. The combination with a support, and a spout loosely connected therewith, of a rotatable adjusting device pivotally connected to the spout, and extending rearwardly therefrom and having its outer end offset, a bracket supporting the device, and means for securing the device in its adjusted positions.

2. The combination with a loosely-supported spout, of an adjusting device therefor comprising a rod having an offset outer end pivotally connected to the spout, a support for the rod in which the same is slidingly held, and means for securing the rod in adjusted positions, substantially as described.

3. The combination with a loosely-supported spout, of an offset adjusting-rod, a swiveled connection between the offset end of the rod and the spout, means for supporting the rod, a handle on the rod, and a locking-plate with which the handle engages, substantially as described.

4. The combination with the spout and elevator-trunk, of a rod having a curved end pivotally secured to the spout to have a universal movement, a bracket supporting the rod, a cross-piece or handle on the end of the rod, and a perforated plate with which the ends of the handle engage, for locking the rod in place, substantially as described.

5. The combination with a laterally-adjustable delivery-spout, of an adjustable extension on the end thereof, means for adjusting the extension and a cut-off for the spout actuated upon the adjustment of the extension, substantially as described.

6. The combination with an adjustable delivery-spout, of an adjustable extension thereon, a valve or cut-off for the spout, and means for adjusting the extension and for simultaneously actuating the cut-off, substantially as described.

7. The combination with an adjustable delivery-spout, of a slidable extension thereon at its delivery end, a cut-off in the spout, a cord attached to the cut-off, a stop on the cord and means on the extension with which the stop engages whereby the movement of the cord acts to actuate the cut-off and moves the extension, substantially as described.

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

WESLEY C. DENTLER.

Witnesses:

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IDA M. ADAMS.