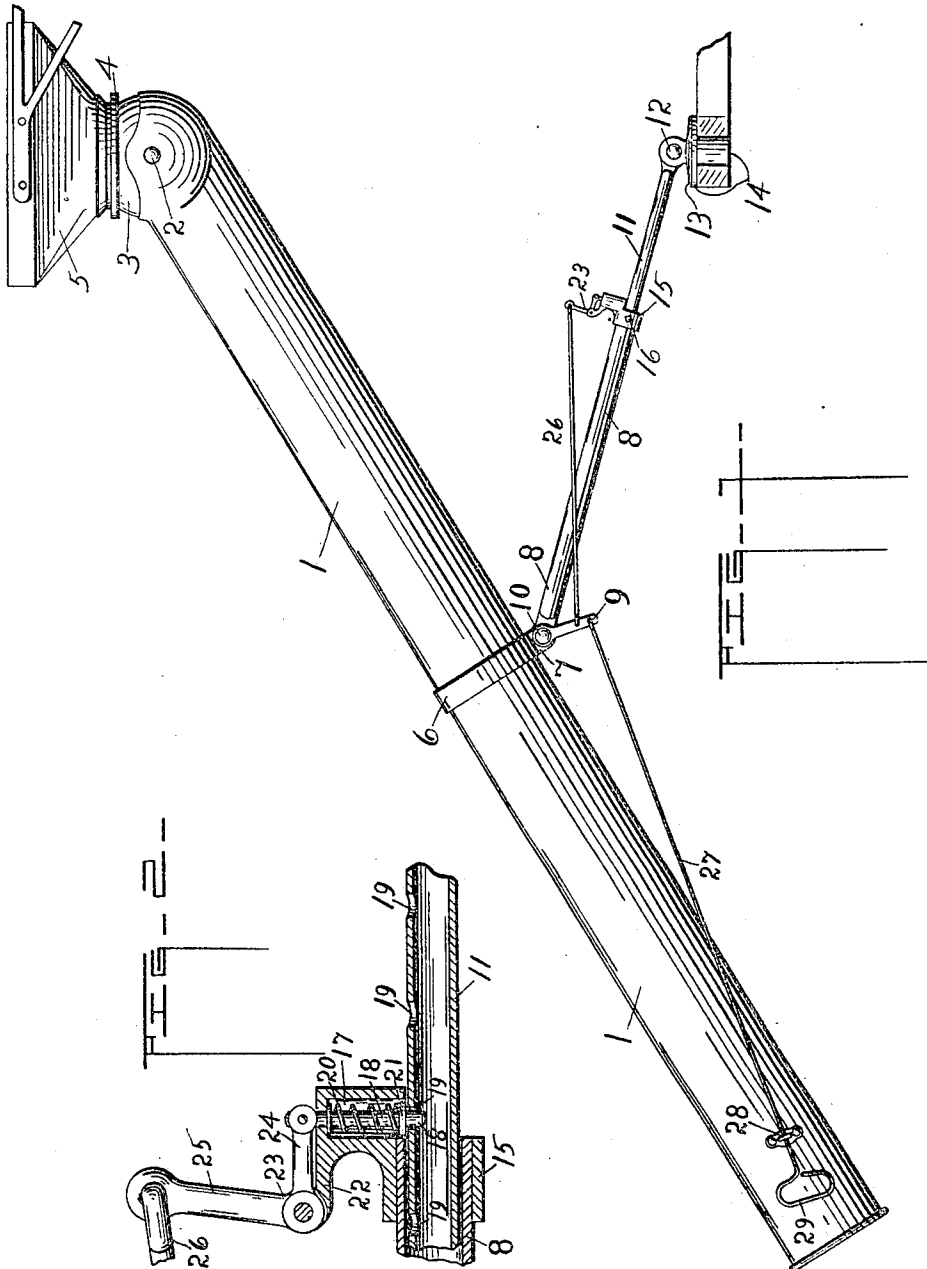


No. 818,762.

PATENTED APR. 24, 1906.

S. B. HART.
ADJUSTABLE SPOUT OR CONVEYER.
APPLICATION FILED JAN. 16, 1905.



Witnesses:

E. W. Giles.

C. E. Mcnemar.

Inventor:

Stacy B. Hart.

per W. V. Jefft.
Attorney.

UNITED STATES PATENT OFFICE.

STACY B. HART, OF PEORIA, ILLINOIS, ASSIGNOR TO HART GRAIN
WEIGHER CO., OF PEORIA, ILLINOIS, A CORPORATION OF ILLI-
NOIS.

ADJUSTABLE SPOUT OR CONVEYER.

No. 818,762.

Specification of Letters Patent.

Patented April 24, 1906.

Application filed January 16, 1905. Serial No 241,235.

To all whom it may concern:

Be it known that I, STACY B. HART, a citizen of the United States, residing at Peoria, in the county of Peoria and State of Illinois, have invented certain new and useful Improvements in Adjustable Spouts or Conveyers; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same.

My invention relates more particularly to spouts or conveyers which are pivoted at their inlet end, and especially relates to the means for vertically adjusting the outlet end of a spout or conveyer of the above description.

The object of my invention is to provide a spout or conveyer that can be adjusted and locked in position from the outlet end thereof, which object I attain by the mechanism illustrated in the accompanying drawings, in which—

Figure 1 represents a pivoted spout or conveyer provided with my adjusting device. Fig. 2 is a vertical cross-sectional view of the locking mechanism of the adjustable support.

With reference to the said drawings the spout or conveyer 1 is pivoted, as at 2, to an intermediate intercommunicating portion 3, which said intermediate portion 3 has a jacket 4, inclosing and rotating on an annular flange of the lower portion of the hopper 5 or other suitable feed-supply, thereby supporting the said spout or conveyer 1 and providing a rotatable connection with the said hopper 5 or other suitable feed-supply, as the case may require.

About midway in the length of the spout or conveyer 1 is a collar 6, secured thereon. On the under side of the spout or conveyer, either integral with the said collar or securely fastened thereto, are the ear-like projections 7, which provide for a pivotal connection of the tube or pipe 8 therewith and also provide for pivotal connection of a short lever 9, preferably using the one pivot or bolt 10 to fasten both the tube and the short lever in their pivotal connection with the collar 6. The tube or pipe 8 telescopes the free end of the tube or rod 11, which said tube or rod 11 has a pivotal connection at 12 with the table 13, the said table rotating on and in the support 14, the axis of rotation of the

said table 13 on and in the support 14 being a continuation of the axis of rotation of the intermediate portion 3 of the spout or conveyer on the flange of the hopper 5 or other suitable feed-supply, as aforesaid.

The free end of the tube or pipe 8, which telescopes the tube or rod 11, is provided with a locking device, (shown in cross-section in Fig. 2,) which said locking device is preferably fastened to the end of the telescoping-tube 8 by means of a tight-fitting collar or sleeve 15 and a set-screw 16. (Shown in Fig. 1.) This locking device consists of a casing having a cylindrical opening 17 therein perpendicular to the telescoped rod 11 and a spring-pressed pin 18, riding therein, the said pin in its lowermost position being inserted in the perforations 19, placed at intervals in the tube or rod 11, and thus locking the said tube or rod 11 in the desired position with reference to the telescoping tube 8.

The spring 20, backed by the end casing of the cylindrical opening 17, bears against the annular flange 21 on the pin 18, thereby causing the said pin in its normal released condition to assume a lowermost position.

Pivotaly connected at its elbow to the extension 22 of the collar 15 or the casing of the cylindrical opening 17 is the angle-lever 23, which has a pivotal connection through the arm 24 with the spring-pressed locking-pin 18. The other arm 25 of this angle-lever 23 has a connection through the rod 26 with the short lever 9, while the rod 27, also connected with the short lever 9, passes through the guide-eyelet 28, which is fastened to the spout or conveyer 1, and terminates in a handle 29 near the mouth or outlet end of the spout or conveyer 1, thus allowing operation of the locking-pin 18 through the series of levers and rods from the outlet end of the spout or conveyer and allowing the operator to adjust and lock the spout or conveyer in any desired position from the mouth or outlet end of the spout or conveyer thereby.

This spout or conveyer is designed particularly for use in connection with threshermachines where the grain is deposited in wagons. As is known, few wagons are of the same height, so it is desirable to adjust the spout from the outlet end and while in the wagon to suit the height of the wagon to be filled.

I am aware that adjustable spouts and con-

veyers are and have been used and am aware that telescopic supports have been used thereon; but I am not aware that a telescopic support has been used in connection with a spout or conveyer and having means for adjusting the same from the outlet end of the spout.

Having thus fully described my invention, what I claim, and desire to secure by Letters Patent of the United States, is—

1. The combination with a conveyer horizontally and vertically vibratably supported at its inlet end, of mechanism operative from the outlet end thereof for adjusting the conveyer in various positions of its vibration.

2. The combination, with a pivoted and rotatable spout or conveyer, of a telescopic support therefor, a spring-pressed pin for adjusting the said telescopic support, and means for controlling the said spring-pressed pin from the outlet end of the aforesaid spout or conveyer.

3. The combination, with a spout or conveyer so constructed at the inlet end as to be horizontally rotatable and vertically adjustable, of a longitudinally-adjustable brace or support therefor, and means for controlling the adjustment of the said brace or support from the outlet end of the supported spout or conveyer.

4. The combination with a laterally and vertically adjustable spout or conveyer of a telescopic support therefor, perforations in the telescoped portion of the support, and a

spring-pressed pin arranged to engage the said perforations, and means for controlling the said spring-pressed pin from the outlet end of the conveyer.

5. The combination with a vibratably-supported conveyer, of an under-brace therefor, adapted to be operated from the outlet end of the conveyer to adjust the said conveyer in various positions of its vibration.

6. The combination with a pivoted spout or conveyer of an adjustable support therefor, and means for adjusting the said support from the outlet end of the said spout or conveyer.

7. In a spout or conveyer rotatable about the feed-supply inlet and vertically adjustable, the combination therewith of an adjustable support therefor, and means for adjusting the said support from the outlet end of the spout or conveyer.

8. The combination with a horizontally-rotatable and vertically-vibratable conveyer of an under-brace therefor, mounted on a part rotatable about the axis of rotation of the elevator, and means for adjusting the said under-brace from the outlet end of the elevator for the purposes herein specified.

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

STACY B. HART.

Witnesses:

JOHANNA E. DE VRIES,
WALTER B. WILDE.