

No. 713,119

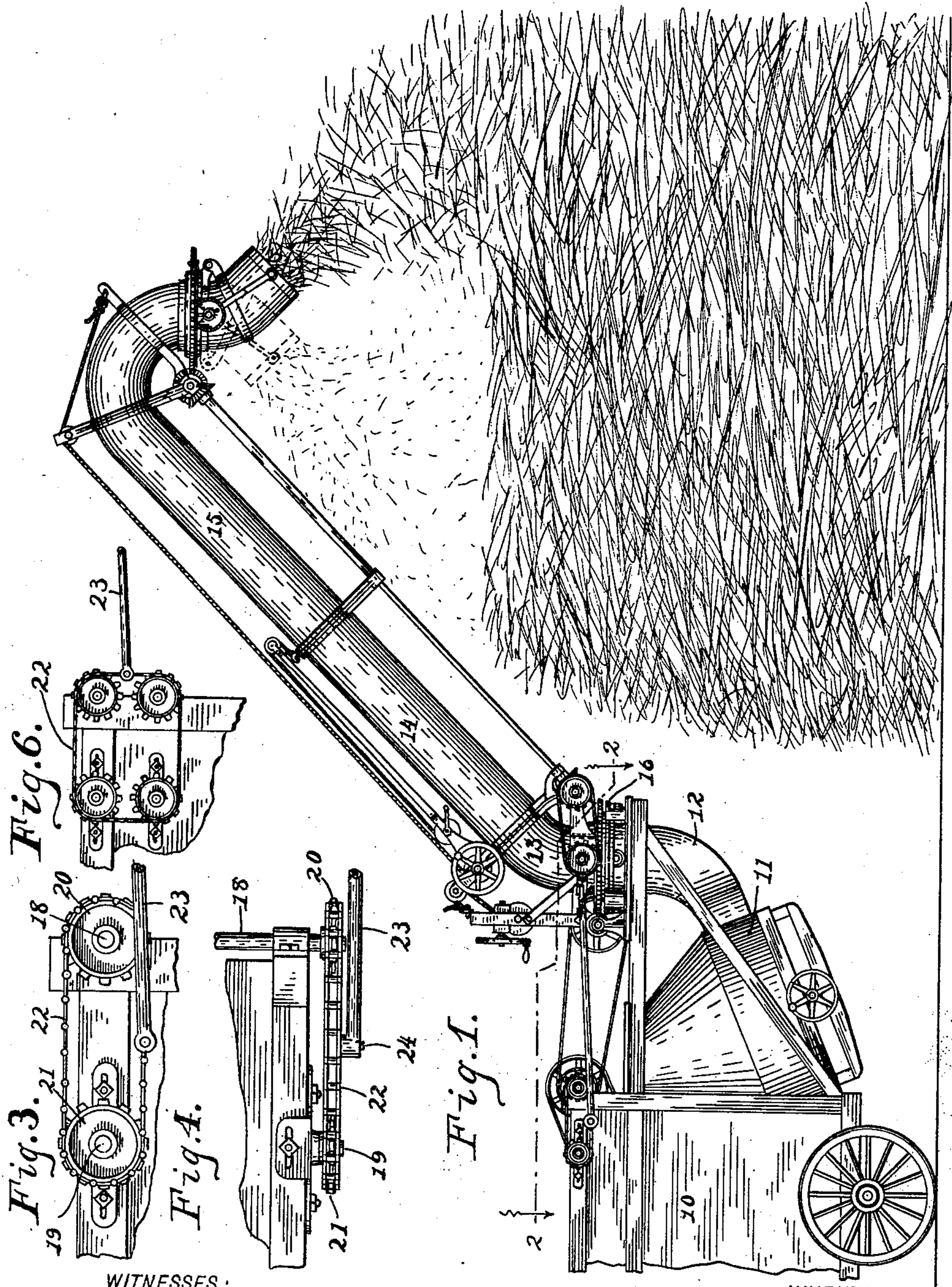
Patented Nov. 11, 1902.

C. N. LEONARD.
STRAW STACKER.

(Application filed Apr. 14, 1902.)

(No Model.)

2 Sheets—Sheet 1.



WITNESSES:

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J. A. Walsh

INVENTOR

Charles N. Leonard,

BY

Bradford & Hood,
ATTORNEYS

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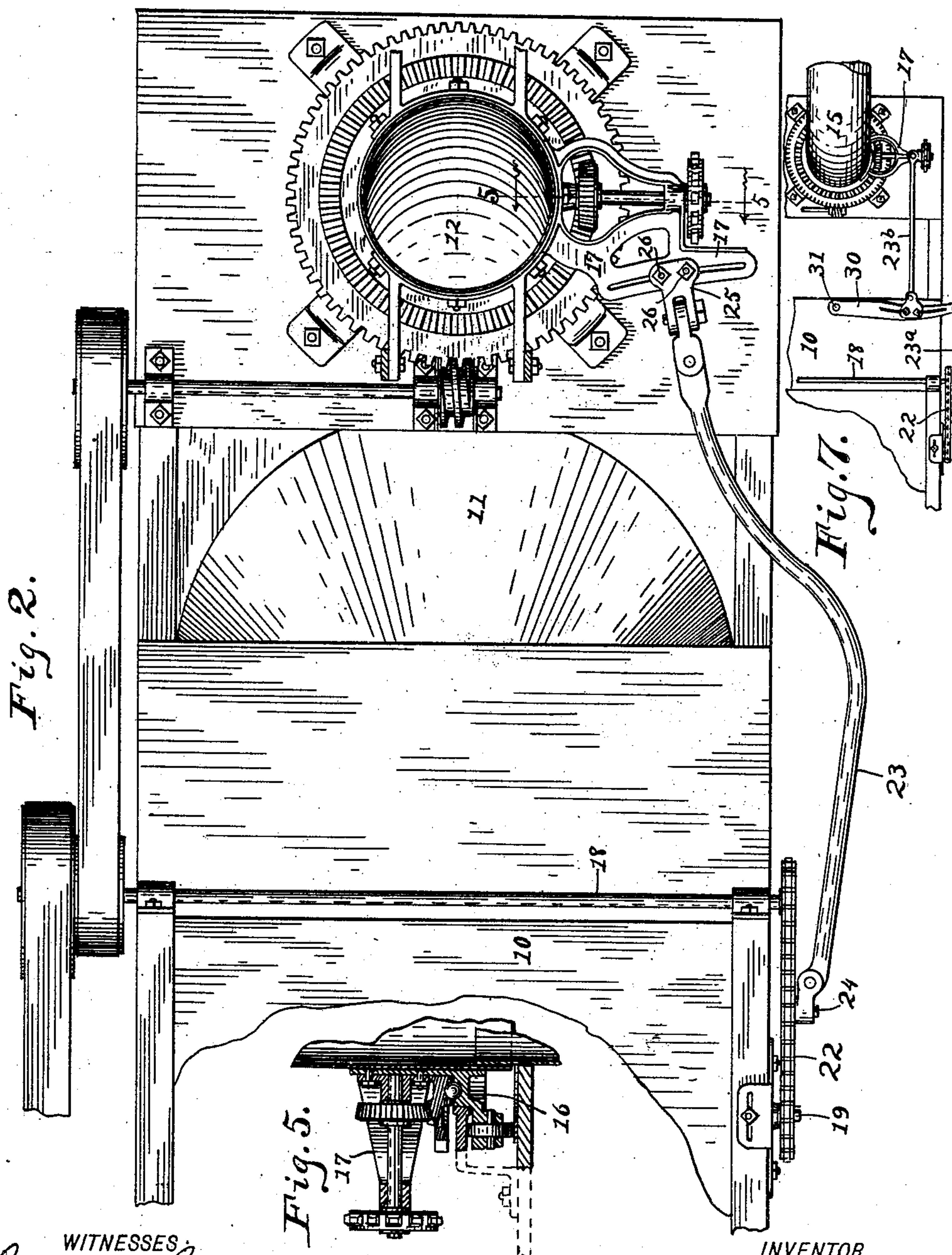
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UNITED STATES PATENT OFFICE.

CHARLES N. LEONARD, OF INDIANAPOLIS, INDIANA, ASSIGNOR TO THE INDIANA MANUFACTURING COMPANY, OF INDIANAPOLIS, INDIANA, A CORPORATION OF WEST VIRGINIA.

STRAW-STACKER.

SPECIFICATION forming part of Letters Patent No. 713,119, dated November 11, 1902.

Application filed April 14, 1902. Serial No. 102,721. (No model.)

To all whom it may concern:

Be it known that I, CHARLES N. LEONARD, a citizen of the United States, residing at Indianapolis, in the county of Marion and State of Indiana, have invented certain new and useful Improvements in Straw-Stackers, of which the following is a specification.

The object of my present invention is to cause the delivery member of a straw-stacker to pause slightly or "dwell" at each end of its travel, the purpose being to build up the stacks full at the ends.

Said invention consists in the particular means of accomplishing this object herein-
after described and claimed.

Referring to the accompanying drawings, which are made a part hereof, and on which similar reference characters indicate similar parts, Figure 1 is a side elevation of a pneumatic stacker embodying my said invention in position for use attached to the rear end of a threshing-machine or separator; Fig. 2, a horizontal sectional plan view, on an enlarged scale, as seen when looking downwardly from the dotted line 2 2 in Fig. 1; Fig. 3 a detail elevation similar to a portion of Fig. 1, but on an enlarged scale; Fig. 4, a top or plan view of the parts shown in Fig. 3; Fig. 5, a detail sectional view as seen from the dotted lines 5 5 in Fig. 2; Fig. 6, a view similar to Fig. 3 of an alternative construction whereby the length of the pause or dwell is increased; and Fig. 7 a detail plan view similar to a portion of Fig. 2, but showing a different construction of the parts by means of which the travel of the stacker is varied.

The fragment 10 of the threshing-machine or separator is shown merely for purposes of illustration and may be of any construction desired. The fan-housing 11, the conduit 12, leading therefrom, and the trunk or chute of the stacker, through which the material is conveyed to and discharged upon the stack, usually composed of the neck 13 and the sections 14 and 15, as well as the mechanism for raising, lowering, and extending the same, are also not peculiar to my present invention and will not, therefore, be particularly described or claimed herein, my present invention being confined to the means for swing-

ing the stacker from side to side and causing the same to dwell at each end of the travel.

The neck of the stacker is mounted, as usual, upon a turn-table 16, which also commonly carries the mechanism for raising, lowering, extending, and otherwise manipulating the trunk or chute, and said turn-table commonly revolves horizontally around a vertical axis as the said trunk or chute is swung from side to side. Secured also to this neck, preferably just above the turn-table, is an arm 17. At a suitable point behind the same is a shaft 18, which is driven from some suitable source of power, (not shown,) generally a pulley on the shaft of the separator 10. A second shaft 19 (generally, as shown, an adjustable stud-shaft) is arranged in suitable relation to said shaft 18. Upon the shafts 18 and 19, respectively, are the sprocket-wheels 20 and 21, and around said sprocket-wheels runs the sprocket or chain belt 22. A connecting-rod or pitman 23 runs from a wrist 24 on said chain or belt to the arm 17 on the neck of the stacker trunk or chute. As is obvious, therefore, as the chain belt is driven by the revolution of the shaft 18 it results in the reciprocation of the rod 23 and the consequent oscillation or movement from side to side of the trunk or chute of the stacker. The distance of the travel of the said trunk or chute is adjustably regulated by means of the slotted connection between the rod or pitman 23 and the arm 17, as shown in the principal drawings, or a similar slotted connection with an intermediate lever, as shown in Fig. 7, the result of either construction being, of course, to increase or diminish the throw. In the principal construction (shown in Fig. 2) the rod or pitman is provided with a head 25, to which it is pivoted, said head being the part immediately connected to the arm 17 by means of suitable bolts 26. In the alternative construction (shown in Fig. 7) the intermediate arm 30 is provided, being pivoted at 31 to the frame of the separator 10 and the rod or pitman being divided into two parts 23^a and 23^b.

In Fig. 6 I have shown means whereby the period of time which the trunk or chute shall remain substantially still at the end of the

path of travel may be increased to any extent desired. I do this simply by duplicating the shafts and sprocket-wheels and running the sprocket or chain belt down over the two sets
 5 instead of the one set. The vertical movement is therefore increased considerably in proportion to the horizontal movement, and the substantial stoppage of travel at each end of the stroke is thus materially increased.
 10 In the ordinary operation of pneumatic stackers, however, this will not commonly be necessary, as the diameters of the sprocket-wheels 19 and 20 can be of sufficient size to give a sufficient pause or dwell at the ends of
 15 the stroke for the purpose desired.

Having thus fully described my said invention, what I claim as new, and desire to secure by Letters Patent, is—

1. The combination, in a straw-stacker, of
 20 a pivotally-mounted delivering member, a pair of revolving wheels, a sprocket chain or belt running over said wheels, and a connecting-rod or pitman running from said chain or belt to a suitable connection with the pivot-
 25 ally-mounted straw-delivering member, whereby said straw-delivering member is

given a suitable reciprocating travel with a pause or dwell at each end thereof.

2. The combination, in a straw-stacker, of the horizontally-mounted turn-table carrying 30 the delivery member of such stacker, an arm extending out from one side thereof, an endless belt or chain carried on suitable wheels adjacent to said turn-table, and a rod or pitman running from said belt or chain to said 35 arm.

3. The combination, in a straw-stacker, of a delivery member mounted on a suitable turn-table, an arm extending out therefrom, a pitman connected to said arm and to a suit- 40 able driver for moving said delivery member on its turn-table, and an adjustable connection between said pitman and said arm whereby the travel of said delivery stacker member may be varied, substantially as set forth. 45

In witness whereof I have hereunto set my hand and seal, at Indianapolis, Indiana, this 10th day of April, A. D. 1902.

CHAS. N. LEONARD. [L. S.]

Witnesses:

CHESTER BRADFORD,
 JAMES A. WALSH.