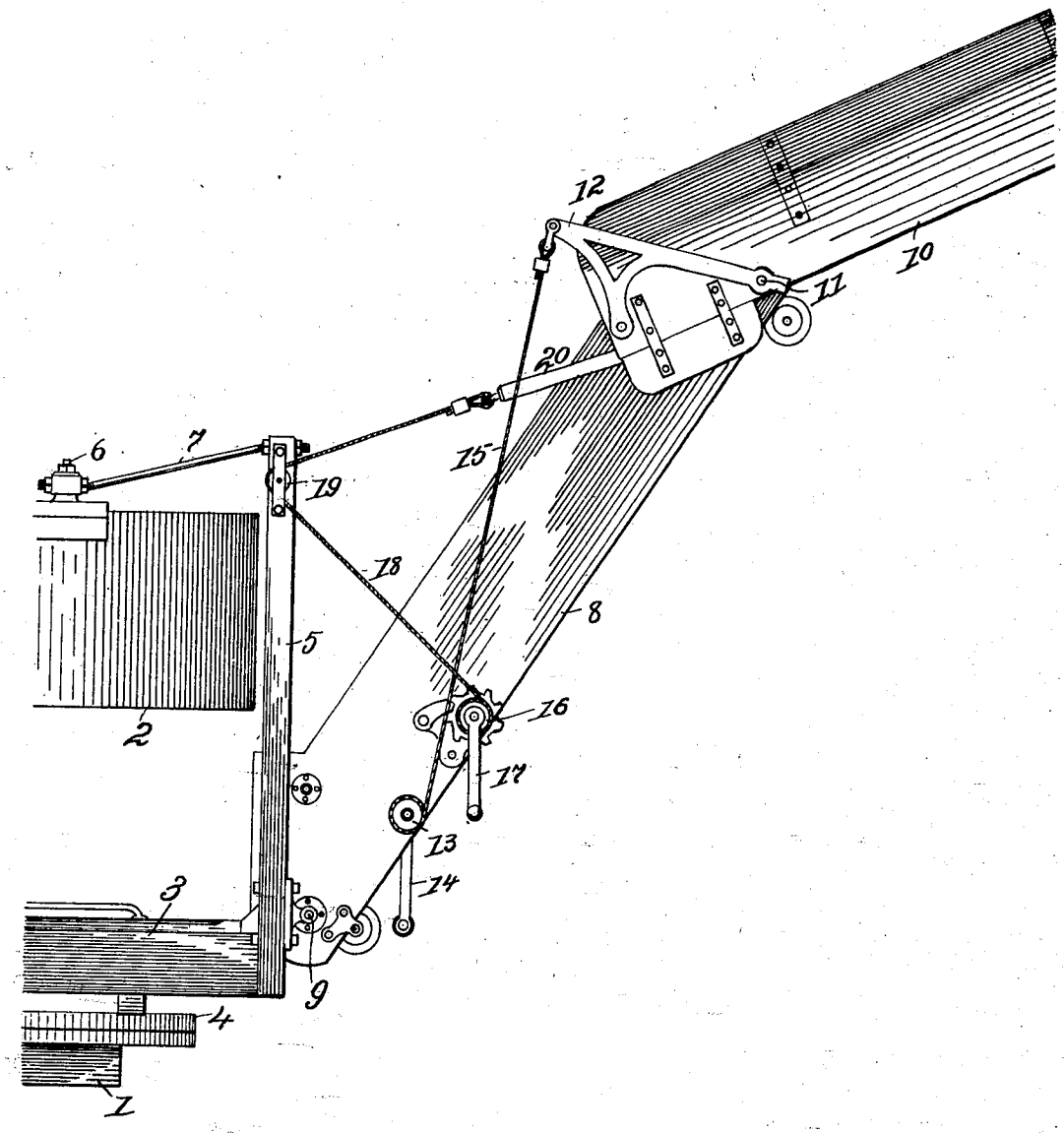
No. 742,116. PATENTED OCT. 20, 1903.

M. HEINEKE.

STRAW STACKER.

APPLICATION FILED SEPT. 8, 1902.

NO MODEL.



Witnesses.
Nora Graham
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Inventor.
Martin Heineke,
by L. R. Graham
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THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

No. 742,116. Patented October 20, 1903.

UNITED STATES PATENT OFFICE.

MARTIN HEINEKE, OF SPRINGFIELD, ILLINOIS, ASSIGNOR TO THE SATTLEY STACKER COMPANY, OF INDIANAPOLIS, INDIANA, A CORPORATION OF MAINE.

STRAW-STACKER.

SPECIFICATION forming part of Letters Patent No. 742,116, dated October 20, 1903.

Application filed September 8, 1902. Serial No. 122,614. (No model.)

To all whom it may concern:

Be it known that I, MARTIN HEINEKE, a resident of Springfield, in the county of Sangamon and State of Illinois, have invented certain new and useful Improvements in Straw-Stackers, of which the following is a specification.

This invention has reference to what are commonly called "attached stackers," which are built onto or permanently attached to the threshing-machines with which they coöperate.

The invention is in the nature of an improvement on the stacker described in patent of the United States No. 618,092, granted to me January 24, 1899; and the object is to provide means whereby stackers having the general characteristics of that described in the said patent may be used as barn-stackers and may be so operated as to hold the discharge end of the stacker over the center of the stack as the stack rises.

In the stacker of my patent hereinbefore mentioned a turn-table is built under the discharge of the thresher and provided with a carrier to receive the straw. An inclined stacker-section is fastened stiffly to the turn-table in position to receive the straw therefrom, and a vertically-swinging section is hinged to the upper end of the inclined section to swing up and down while depositing the straw and to fold back onto the deck of the thresher while not in use. The three sections of the stacker of the patent are provided with means for elevating the straw, and as a matter of preference a continuous belt or raddle runs through the turn-table and the two other sections and forms a carrier for the entire stacker. The inclined section of stacker is in the aforesaid patent held against vertical swing, and it extends too high to permit the thresher to be run into a barn and used as a barn-stacker to deposit the straw alongside the barn. To obviate this and to permit the upper section to be carried bodily back and forth, so as to hold the discharge end over the center of the stack, I have in this instance hinged the lower or intermediate section to the turn-table section in a manner permitting vertical swing and have provided improved and simplified means for swinging the intermediate section on its pivot.

In the drawing forming part of this specification an embodiment of my invention is shown in side elevation.

The rear end of a sill of a thresher is shown at 1 and the discharge-hood for the thresher is shown at 2. A horizontal carrier-frame 3 is supported from the rear extension 1 of the stacker by means of turn-table 4 or other suitable pivotal support. A frame rises from the rear end of the horizontal carrier-platform, one of the uprights of the frame being shown at 5. A brace 7 connects pivotally at 6 with the top of the hood 2 in vertical alinement with the center of the turn-table 4. A stacker-section 8 is pivoted at 9 to brackets on the upright frame, and a second stacker-section 10 is pivoted at 11 to the upper end of section 8. An arm 12 is secured to a side of the section 10, and a line 15 runs from the extended end of the arm to a drum 13, which is mounted on a shaft in the lower part of section 8. A crank 14 is attached to the shaft of drum 13, and it provides means for raising and lowering the swinging end of section 10 and for folding the said section back onto the deck of the thresher. A second drum 16 is mounted on a second shaft journaled in the lower part of section 8, and a crank 17 provides means for rotating the shaft and the drum thereon. A pulley 19 has bearings in the upper end of upright 5. A bail 20 is connected with the upper end of section 8, and a line 18 extends from drum 16 to bail 20 by way of pulley 19.

The upper end of section 8 is lowered, by means of the drum and line, to permit the thresher to enter a barn and is then raised to an operative position by the same means. When the stacker is used to build a stack, the upper end of section 8 may be swung forward and backward to hold the outer end of section 10 over the center of the stack. The discharge end of section 10 describes an arc of a circle in rising from its lowest position to its highest position, and when section 8 is held against vertical swing the discharge is closest to the thresher at extreme upward and downward positions of the discharge end of section 10 and farthest from the thresher when the upper section is in a horizontal position. Consequently the upper end of sec-

tion 8 is drawn toward the thresher when the section 10 approaches the horizontal and is permitted to swing away from the thresher as section 10 moves to its extreme positions.

The location of the cranks facilitates their manipulation, and as a matter of convenience a crank is placed on each side of the section 8 of the stacker.

The drum 16 moves toward pulley 19 as the stacker-section 8 rises, and the purchase of the line 18 is thereby increased about one-half without any special mechanical provision to accomplish that result.

The stacker is to have straw-carriers in the turn-table and in the different sections. I prefer to run a single raddle through the entire stacker; but this matter may be determined to suit circumstances, and the carriers may be made in various ways.

I claim—

1. In an attached stacker, the combination with a thresher, of an approximately horizontal stacker-section pivoted to swing horizontally under the discharge end of the thresher, an inclined stacker-section pivoted at its lower end to swing vertically on the horizontal section, a third section pivoted to swing vertically on the upper end of the intermediate section and capable of swinging below the line thereof, and separate means for individually swinging the pivoted sections on their respective pivots, substantially as described.

2. In an attached stacker, the combination with a thresher, of an approximately horizontal stacker-section pivoted to swing horizontally under the discharge end of the thresher, an inclined stacker-section pivoted at its lower end to swing vertically on the horizontal section, a third section pivoted to swing vertically on the upper end of the intermediate section, a vertical extension rising from the rear end of the horizontal section, a pulley in the vertical extension, a drum on the intermediate section, a crank for the drum and a line running from the drum around the pulley and connecting with the upper part of the intermediate section, substantially as described.

3. In an attached stacker, the combination with a thresher, of an approximately horizontal stacker-section pivoted to swing horizontally under the discharge end of the thresher, an inclined stacker-section pivoted at its lower end to swing vertically on the horizontal section, a third section pivoted to swing vertically on the upper end of the intermediate section, a vertical extension rising from the rear end of the horizontal section, a pulley in the vertical extension, a pair of drums on the intermediate section, cranks for the drums, a line running from one drum around the pulley and connecting with the upper part of the intermediate section, and a line running from the other drum and connecting with the discharge-section off the pivot thereof, substantially as described.

4. In an attached stacker, the combination, with a thresher, of an approximately horizontal stacker-section pivoted to swing horizontally under the discharge end of the thresher, an inclined stacker-section pivoted at its lower end to swing vertically on the lower section, a third section pivoted to swing vertically on the upper end of the intermediate section and capable of swinging below the line thereof, separate means for individually swinging the several pivoted sections on their respective pivots, and a continuous straw-carrying raddle running over the several sections.

5. In an attached stacker, the combination, with a thresher, of an approximately horizontal section pivoted horizontally under the discharge end of the thresher, an inclined stacker-section pivoted at its lower end to swing vertically on the horizontal section, a third section pivoted to swing vertically on the upper end of the intermediate section, a vertical extension rising from the horizontal section, a sheave mounted on said vertical extension, a drum mounted on the intermediate section, means for rotating said drum, and a line running from the drum around the sheave and connecting with the intermediate section, substantially as set forth.

6. In an attached stacker, the combination, with a thresher, of an approximately horizontal section pivoted horizontally under the discharge end of the thresher, an inclined stacker-section pivoted at its lower end to swing vertically on the horizontal section, a third section pivoted to swing vertically on the upper end of the intermediate section, a vertical extension rising from the horizontal section, a brace secured to said vertical extension and to a vertical pivot on the thresher, a sheave mounted on said vertical extension, a drum mounted on the intermediate section, means for rotating said drum, and a line running from the drum around the sheave and connecting with the intermediate section, substantially as set forth.

7. In an attached stacker, the combination, with a thresher, of an initial straw-receiving stacker-section pivoted to swing beneath the discharge end of the thresher, an intermediate stacker-section pivoted to the initial section on an axis at an angle to the axis of the first section, a third stacker-section pivoted to the outer end of the intermediate section and capable of swinging below the line thereof, and means for individually swinging the several sections on their respective pivots.

In testimony whereof I sign my name in the presence of two subscribing witnesses.

MARTIN HEINEKE.

Witnesses:
C. F. BATCHELDER,
W. J. BOGARDUS.