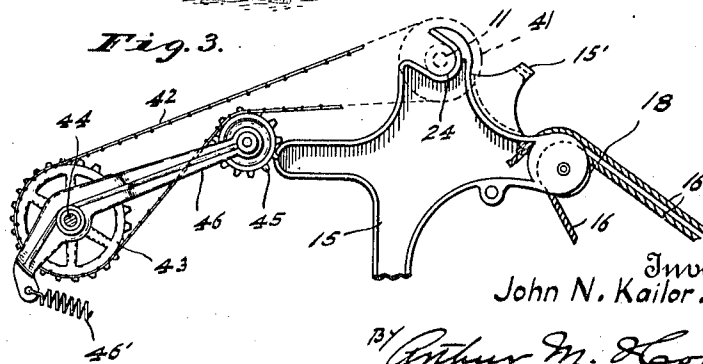
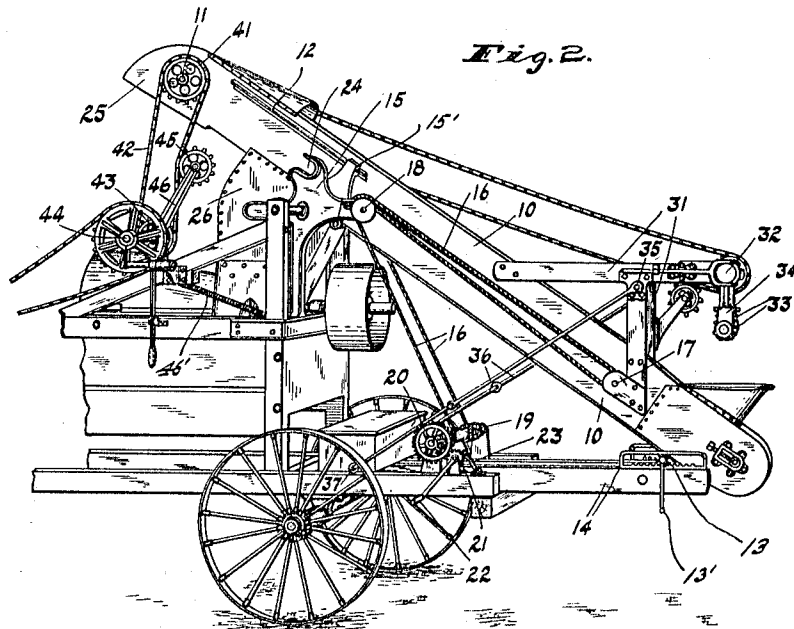
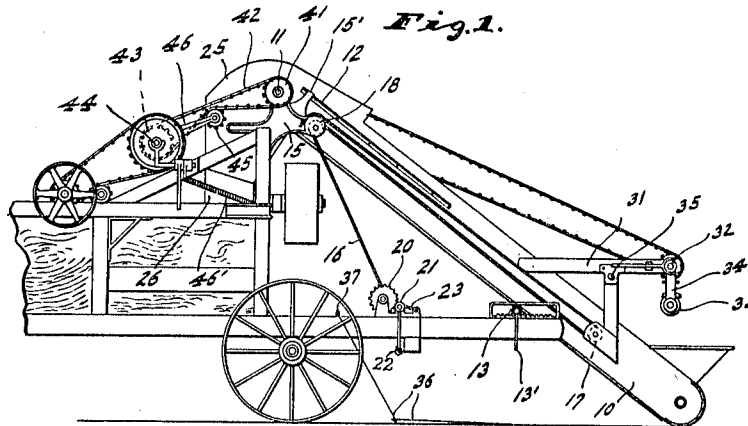


J. N. KAILOR.
CORN SHELLER FEEDER.
APPLICATION FILED MAY 13, 1912.

1,039,293.

Patented Sept. 24, 1912.



Witnesses
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UNITED STATES PATENT OFFICE.

JOHN N. KAILOR, OF COLUMBUS, INDIANA, ASSIGNOR TO REEVES & COMPANY, OF COLUMBUS, INDIANA, A CORPORATION OF INDIANA.

CORN-SHELLER FEEDER.

1,039,293.

Specification of Letters Patent.

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Application filed May 13, 1912. Serial No. 696,928.

To all whom it may concern:

Be it known that I, JOHN N. KAILOR, a citizen of the United States, residing at Columbus, in the county of Bartholomew and State of Indiana, have invented a new and useful Corn-Shell Feeder, of which the following is a specification.

The object of my invention is to produce a small feeder mechanism for corn shellers and other similar structures which may be readily shifted from feeding to shipping position without disturbing the driving connections of the various parts.

In the accompanying drawings Figure 1 is a partial perspective view of a machine embodying my invention; Fig. 2 a partial side elevation; and Fig. 3 a detail.

In the drawing, 10 indicates a conveyer chute in which is mounted an ordinary endless conveyer driven by means of a shaft 11 journaled in the upper end of the chute. This chute is inclined at an angle of about 45° and its weight is supported at the top by a pair of side slide bars 12 loosely sliding in grooves in the arms 15' of a pair of brackets 15, only one of which is shown. The lower end of the chute rests upon a cross bar 13 having a rack and pinion mounting, adjustable by a crank 13', on a pair of supporting bars 14. Secured to each bracket is one end of a hoisting rope 16 which is carried thence downwardly alongside of the chute 10 and passed around a pulley 17 and thence back and over a pulley 18 journaled on the bracket 15, and from thence downwardly to and around a winding shaft or windlass 19, which is equipped with a gear 20 meshing with a pinion 21 provided with an operating crank 22, a holding pawl 23 engaging the pinion 21 to normally prevent backward movement. The hoisting cable described is duplicated upon the opposite side of the machine.

In order to support the chute in its lower or operative position, each bracket 15 is provided with an open crotch 24 adapted to receive shaft 11 when the chute is in its lower position. The chute 10 at its upper end is provided with a hood 25 which, when the chute is in its lower position, mates with the chute or hood 26 which leads down to the shelter mechanism.

The chute 10 at its lower end carries a pair of brackets 31 which support a counter-shaft 32, which counter shaft drives a train

of gearing 33 for the purpose of driving a cross conveyer which is pivotally supported upon a bracket 34 in an ordinary manner. Each of the brackets 31 carries a pin 35 which is adapted to detachably receive one end of a set of links or chain 36, the opposite end being secured at 37 to the main frame of the machine, the construction being such that, when the chute is in the upper or shipping position and chains 36 are in place as shown, the weight of the chute will be supported by the chains 36 and the cable 16 may be slackened so as not to carry any weight.

When the chute is in its lower position, shaft 11 will rest in the crotches 24 and there will be no weight upon the cables 16. At this time the lower end of the chute may be adjusted, by turning the crank 13', to accommodate it to an unevenness in the ground.

Shaft 11 is provided with a sprocket wheel 41 over which a driving chain 42 is passed from a driving sprocket 43 carried by a drive shaft 44 journaled on the main frame. As shaft 11 moves from one position to the other there will be a slight slackening of chain 42, and in order to prevent it from becoming displaced on its sprocket wheels, I provide an idler 45 carried at the end of an arm 46, said arm being held in engagement with chain 42 by means of spring 46'.

I claim as my invention:

1. A feed chute comprising an upwardly inclined chute, supports for both ends of the chute on which the chute is slidable, the supports for the two ends of the chute being relatively adjustable horizontally, and means for sliding said chute on said supports and holding it in adjusted position.

2. A feed chute comprising an upwardly inclined chute, separate supports for the upper and lower ends of the chute on which supports the chute is slidable, the support for the lower end of the chute being horizontally adjustable.

3. A feed chute comprising an upwardly inclined chute, separate supports for the upper and lower ends of the chute on which supports the chute is slidable, the support for the lower end of the chute comprising a cross bar having a rack and pinion mounting on a pair of supporting arms.

4. A feed chute comprising an upwardly

inclined chute, a pair of slide bars attached to the upper end of said chute, a pair of supports slidably cooperating with said slide bars, and a support on which the lower end of the chute is slidably mounted.

5 5. A feed chute comprising an upwardly inclined chute, supports upon which said chute may slide, a pair of supporting brackets 15, a windlass, and cables passing from the windlass over supports on the brackets and thence connected to the lower end of the feed chute.

15 6. A feed chute comprising an upwardly inclined chute, supports upon which said chute may slide, a pair of supporting brackets 15 each of said brackets having an open crotch 24 to receive a portion of the chute when in its lower position, a windlass, and cables passing from the windlass over supports on the bracket and thence connected to the lower end of the feed chute.

20 7. A feed chute comprising an upwardly inclined chute, supports upon which said chute may slide, a pair of supporting brackets 15, a windlass, and cables passing from the windlass over supports on the bracket and thence connected to the lower end of the feed chute by passing over a pulley thereon and thence back to the bracket.

30 8. A feed chute comprising an upwardly inclined chute, supports upon which said chute may slide, a pair of supporting brackets 15 each of said brackets having an open crotch 24 to receive a portion of the chute when in its lower position, a windlass, and cables passing from the windlass over supports on the bracket and thence connected to the lower end of the feed chute by passing over a pulley thereon and thence back to the bracket.

40 9. A feed chute comprising an upwardly inclined chute, supports upon which said chute may slide, a pair of supporting brackets 15, a windlass, cables passing from the windlass over supports on the bracket and thence connected to the lower end of feed chute, and supporting chains secured at their lower ends to the supporting frame and at their upper ends adapted to detachably engage portions of the feed chute to hold the same in upper position independent of the lifting cables.

10. A feed chute comprising an upwardly inclined chute, supports upon which said chute may slide, a pair of supporting brackets having an open crotch 24 to receive a portion of the chute when in its lower position, a windlass, cables passing from the windlass over supports on the bracket and thence connected to the lower end of the feed chute, and supporting chains secured at their lower ends to the supporting frame and at their upper ends adapted to detachably engage portions of the feed chute to hold the same in upper position independent of the lifting cables.

11. A feed chute comprising an upwardly inclined chute, supports upon which said chute may slide, a pair of supporting brackets 15, a windlass, cables passing from the windlass over supports on the bracket and thence connected to the lower end of the feed chute by passing over a pulley thereon and thence back to the bracket, and supporting chains secured at their lower ends to the supporting frame and at their upper ends adapted to detachably engage portions of the feed chute to hold the same in upper position independent of the lifting cables.

12. A feed chute comprising an upwardly inclined chute, supports upon which said chute may slide, a pair of supporting brackets 15 each of said brackets having an open crotch 24 to receive a portion of the chute when in its lower position, a windlass, cables passing from the windlass over supports on the bracket and thence connected to the lower end of the feed chute by passing over a pulley thereon and thence back to the bracket, and supporting chains secured at their lower ends to the supporting frame and at their upper ends adapted to detachably engage portions of the feed chute to hold the same in upper position independent of the lifting cables.

In witness whereof, I have hereunto set my hand and seal at Indianapolis, Indiana, this eleventh day of May, A. D. one thousand nine hundred and twelve.

JOHN N. KAILOR. [L. s.]

Witnesses:

ARTHUR M. HOOD,
FRANK A. FAHLE.