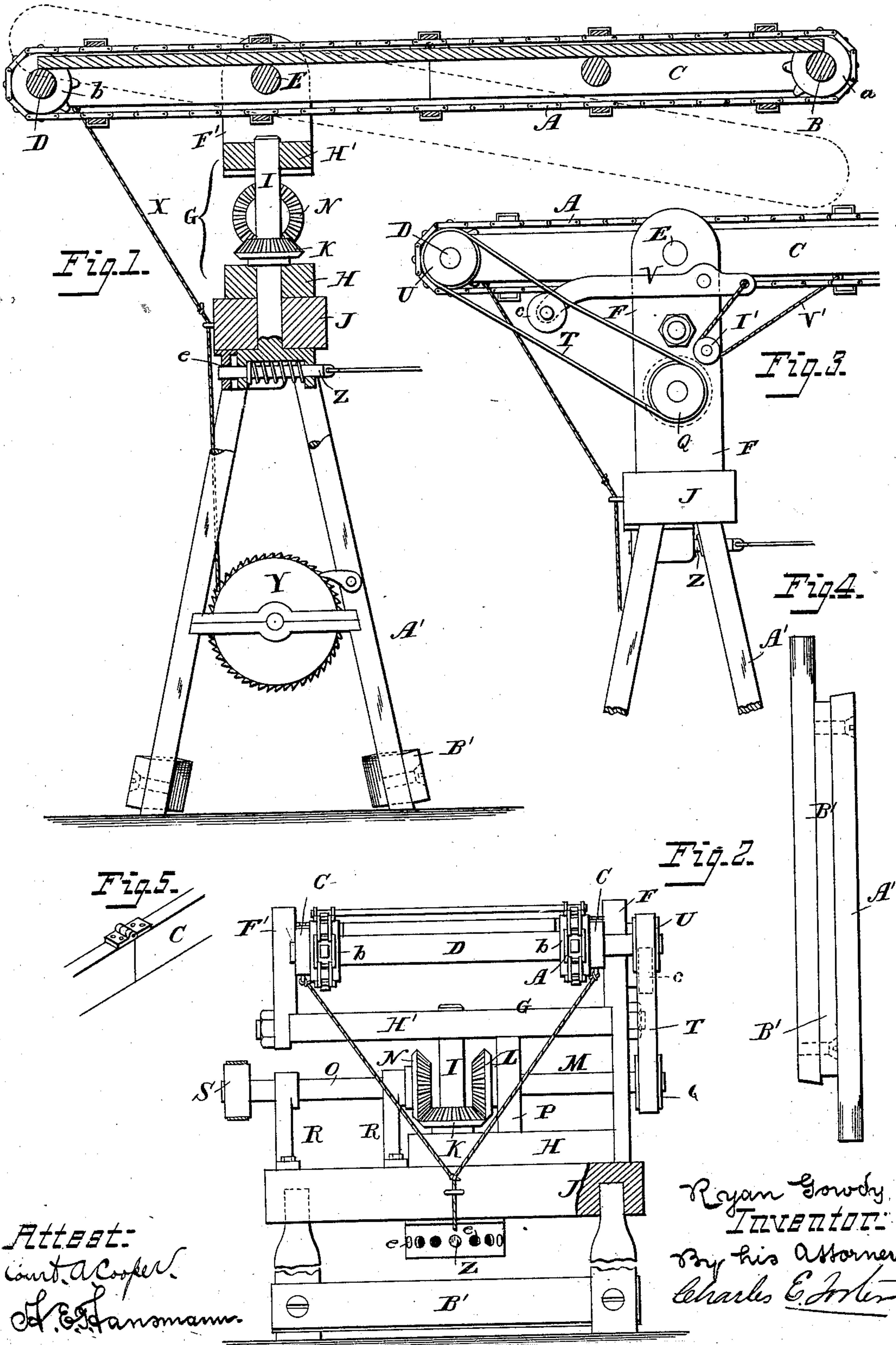


(No Model.)

R. GOWDY.  
STRAW STACKER.

No. 285,747.

Patented Sept. 25, 1883.



Attest:  
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# UNITED STATES PATENT OFFICE.

RYAN GOWDY, OF SHELBYVILLE, ILLINOIS.

## STRAW-STACKER.

SPECIFICATION forming part of Letters Patent No. 285,747, dated September 25, 1883.

Application filed March 30, 1883. (No model.)

*To all whom it may concern:*

Be it known that I, RYAN GOWDY, of Shelbyville, Shelby county, Illinois, have invented certain Improvements in Straw-Stackers, of which the following is a specification.

My invention relates to straw-stackers, and has for its object the distribution of the straw to form a horseshoe or U-shaped stack; and it consists in the construction and combination of parts hereinafter particularly described, and then specifically defined by the claims.

In the drawings, Figure 1 is a longitudinal section of the stacker; Fig. 2, an end view; Fig. 3, a side view with parts broken away. Fig. 4 represents the legs detached and folded; and Fig. 5 is a perspective of part of the carrier-frame, showing the hinged joint.

In the drawings, the letter A indicates the slatted belt-carrier, supported at one end by pulleys *a* on a shaft, B, journaled in a frame, C, and at the opposite end by pulleys *b*, on a shaft, D, journaled in the other end of the frame C. This frame is hinged or journaled by the fixed shaft E to the upright posts F F' of a table, G. This table is composed of posts F F' and cross-bars H H', and is pivoted by the vertical pin I to the cross beam or block J. The pin I carries a loose bevel-gear, K, with which meshes a pinion, L, on a horizontal shaft, M, in line with the pin I, and also a pinion, N, on a horizontal shaft, O, likewise in line with the pin. The shaft M has its bearings in the block P and post F, and has a pulley, Q, keyed to its outer end. The shaft O turns in suitable bearings, R, secured to cross-beam J, and has a pulley, S, keyed to its outer end. A belt or chain, T, passes from pulley Q to and around a pulley, U, on the end of the shaft D, and a belt-tightener, composed of a lever, V, having a friction-roller, *c*, at one end, is pivoted to the side post, F. The carrier is raised and lowered by a chain or rope, X, which passes from the rear end of the frame to and around a windlass, Y, on the cross-beam J, and when the belt T is slackened by elevating the carrier the slack is taken up and the belt tightened by the following means: A rope or chain, V', is connected to the lever V, and passed over a pulley, I', held to post F, and then secured to frame C, so that when the latter is raised the rear end of the

lever is lifted and its forward or roller end thrown up against the inside of the upper part of the bolt, so as to elevate that part, and thereby take up the slack caused by raising the carrier-frame. The lower end of the pivotal pin I extends through the cross-beam J, and has secured in any suitable manner to its lower end a spring-bolt, Z, which will turn with the pin, and may be shot into any one of a series of keepers, *e*, so that the carrier may be locked at any point desired within the circle in which it moves. The cross-beam J is supported by cross-legs A', the upper ends of which fit into sockets in cross-beam J, while the lower ends are hinged by bolts to cross-bars B', so that when the legs are taken out of their sockets they may be folded up.

In order that the stacker may be easily transported, the frame C is made in hinged sections, so that it may be folded, and the short post F' is secured to the cross-bar H' by a nut screwed onto the threaded end of the bar, so that when the nut is removed the short post can be lifted away from the bar and shaft E, and the frame then lifted from off the table, and then, by disconnecting the legs from the frame, the stacker can be moved in sections.

In operation the stacker is placed so that the carrier A will be just under the forward end of the straw-carrier of the thrashing-machine. A belt is run from a pulley on a thrasher or other power to and around pulley S on shaft O, and the power thus communicated to shaft O is transmitted to the belt-carrier A through the loose gear K, shaft M, and belt T. The straw is delivered from the carrier at the point where the stack is to be formed, and by turning the carrier, which can be done by an attendant either on the ground or on the stack, the straw will be delivered so as to build the stack in a U or semicircular form, which will render the stack more difficult to be thrown down, and also make it a good shelter for cattle. When the carrier is to be shifted from one side to the other, the bolt Z is withdrawn from its keeper by means of a rope in the hands of the attendant and after the adjustment has been made the rope is slackened, when the spring shoots the bolt into another keeper and holds the carrier steadily in place till it is to be moved again.



The stacker may be stayed by guy-ropes or weighted by any suitable means to keep it steady while operating.

Having described my invention and set forth its merits, what I claim is—

1. The combination of the table pivoted to turn in a horizontal plane, the straw-carrier hinged to the table so as to swing in a vertical plane, a spring-bolt secured to the lower end of the table pivot-pin, and the series of keepers to receive the bolt, the several parts being arranged to operate as specified.

2. The combination of the table pivoted to turn in a horizontal plane, the straw-carrier hinged to the table so as to swing in a vertical plane, a belt or chain and pulleys for transmitting motion to the straw-carrier, and the

self-adjusting lever connected with the carrier and pivoted to bear against the inside of the power-transmitting belt, substantially as and for the purpose specified.

3. The combination of the detachable and folding legs, the cross-beam resting thereon, the table pivoted to the beam, the straw-carrier, and the removable post connecting the table and carrier, substantially as and for the purpose specified.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

RYAN GOWDY.

Witnesses:

H. B. SMITH,

E. A. COOK.