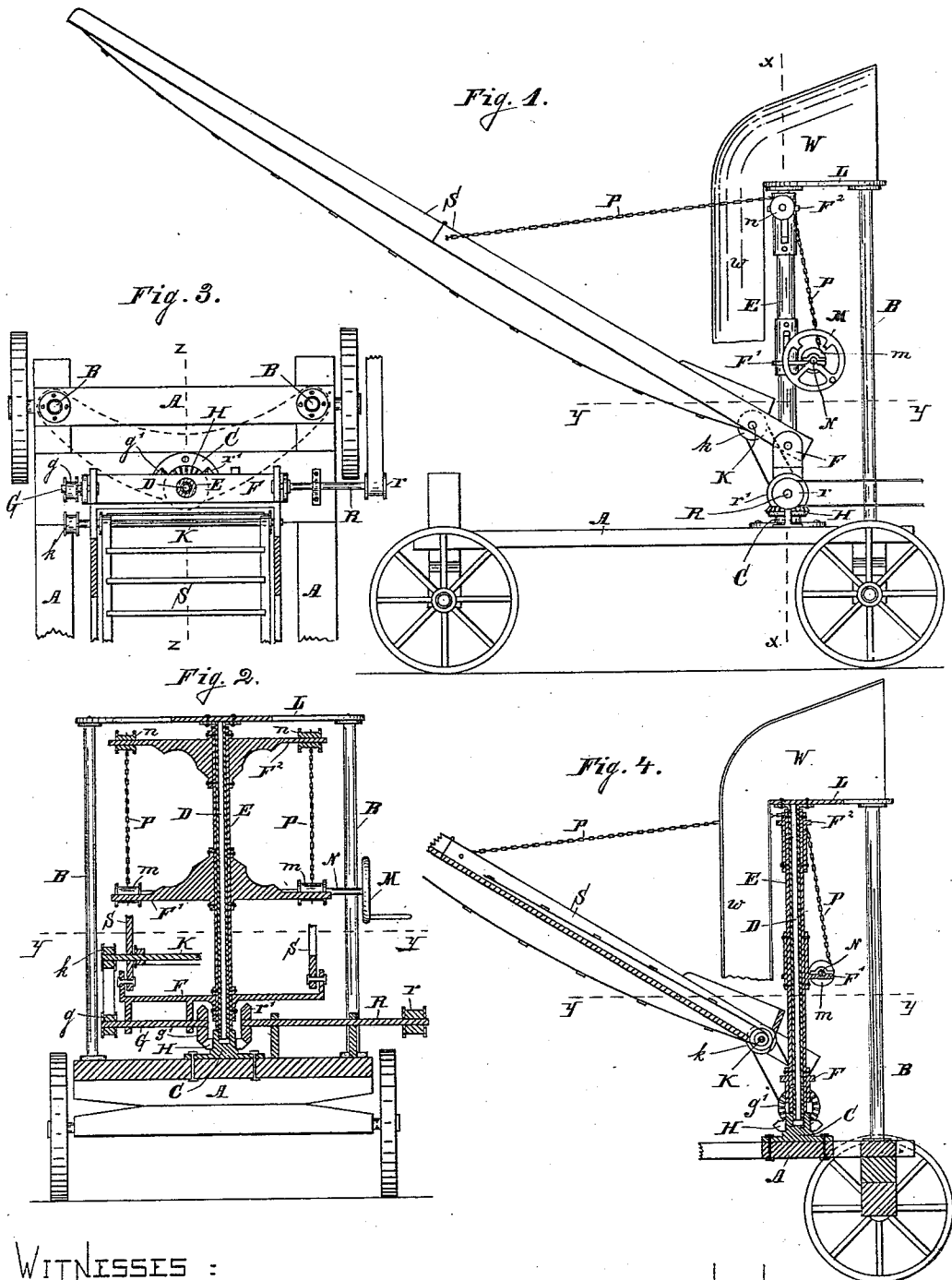


(No Model.)

W. C. SWINDLER.  
STRAW STACKING MACHINE.

No. 282,799.

Patented Aug. 7, 1883.



WITNESSES :

Bernh. J. Liggins.

Gottf. Hochler.

INVENTOR :

William C. Swindler

Per

James B. Liggins & Co.

Attorneys.

# UNITED STATES PATENT OFFICE.

WILLIAM C. SWINDLER, OF BELLEVILLE, INDIANA.

## STRAW-STACKING MACHINE.

SPECIFICATION forming part of Letters Patent No. 282,799, date August 7, 1883.

Application filed May 29, 1883. (No model.)

### *To all whom it may concern:*

Be it known that I, WILLIAM C. SWINDLER, a citizen of the United States, residing at Belleville, in the county of Hendricks and State of Indiana, have invented certain new and useful Improvements in Straw-Stacking Machines, of which the following is a specification.

My invention relates to improvements in straw-stacking machines; and the objects of my improvements are, first, to dispense with turntable and derrick; second, to produce a low-down stacker, or one in which the running-gear of the straw-carrier is operated from the frame of the truck instead of from an elevated turntable, which is simpler in construction and more easily and quickly raised and lowered than the machines now in use. I attain these objects by the mechanism illustrated in the accompanying drawings, in which—

Figure 1 is a side elevation of the entire machine. Fig. 2 is a vertical cross-section through the machine on line *x x*. Fig. 3 is a top view and partial horizontal section through the machine on line *y y*, Fig. 1, with the top tie-plate L, shown in dotted lines. Fig. 4 is a vertical longitudinal section through the machine on line *z z* on Fig. 3.

The same letters of reference refer to the same or corresponding parts throughout the several views.

A is the frame of the truck. To it are bolted the socket-plate C and the posts B B. At the top of and connecting the posts B B is the tie-plate L. Between the socket-plate C on truck A and the tie-plate L is standard D, screwed solidly into the socket-plate C and to tie-plate L.

Around the flanges forming socket in plate C on truck A operates the gear-wheel H, and it is operated by the gear-wheel *r'* and the pulley *r* on shaft R, said pulley *r* being driven by a belt from the engine or thrashing-machine.

The shaft R is supported on truck A by brackets. The gear-wheel H drives the shaft G in connection with the gear *g'* on shaft G, which operates pulley *g* on shaft G. Shaft G is hung to bolster F. Pulley *g* on shaft G operates pulley *k* on shaft K by a belt. Shaft K runs the straw-carrier. The posts B B are set back of stationary standard D, to allow straw-carrier to swing around.

Around stationary standard D operates the sleeve E. To this sleeve is securely fastened the bolster F, and the arms F' and F<sup>2</sup> well braced to sleeve. The arms F' support the shaft N, on which are rigidly secured the drums *m m*. The shaft N is operated by a crank-wheel, M, or any other suitable device, and on the drums *m m* are wound the chains or ropes P P, which pass over guide-pulleys *n n* on shaft F<sup>2</sup>, and are connected to the carrier-frame S. The carrier-frame S is thus raised and lowered by operating crank-wheel M, said carrier-frame to be held in any position desired by clicks operating on the drums or on the crank-wheel, or by any other suitable device. On tie-plate L is the hood W, with chute *w*, depending from the hood, to deliver the straw directly onto the carrier.

The belt from the engine or thrashing-machine to the pulley *r* runs shaft R. Gear *r'* on shaft R transmits the power to gear H operating around the base of the stationary standard D. Gear-wheel H transmits the power to shaft G, and it in turn to shaft K, by means of gear-wheel *g'* and pulleys *g* and *k*. Shaft K operates the slats and belts of the straw-carrier.

The bolster F, which supports carrier-frame S, and the arms F' and F<sup>2</sup>, to which are secured the mechanism serving to raise and lower the carrier-frame S, being rigidly fastened to sleeve E, enables the carrier-frame to be operated in any direction without interfering with the operation of any part of the machine.

To prepare the machine for transportation, lower the carrier-frame onto the truck and fold it. To raise the stacker, unfold the carrier-frame and raise it by the aid of crank-wheels, chains, &c.

What I claim, and desire to secure by Letters Patent, is—

1. The combination, in a low-down straw-stacker, of the carrier-frame, a truck, a stationary standard, a sleeve mounted on said standard, a bolster supporting the carrier-frame securely fastened to said sleeve, the pulleys, and the bevel-gearing operating around the base of the stationary standard, as described, and for the purpose specified.

2. The combination, in a low-down straw-stacker, of the carrier-frame S, the bolster F, 100

arms  $F'$ , with shaft  $N$ , drums  $m\ m$ , crank-wheel  $M$ , arms  $F''$ , with pulleys  $n\ n$ , chains or ropes  $P$ , a stationary standard, and a sleeve,  $E$ , operating around said stationary standard  $D$  to allow stacker to be turned in any direction without interfering with the operation of any part of the machine, substantially as described, and for the purpose specified.

3. The combination, in a low-down straw-stacker, of the carrier-frame  $S$ , a stationary standard,  $D$ , supporting-posts  $B\ B$ , socket-plate  $C$ , tie-plate  $L$ , the gearing  $H$ ,  $r'$ , and  $g'$  at the base of the stationary standard  $D$ , the pulleys  $r$ ,  $g$ , and  $k$  to transmit motion to the car-

rier, the bolster  $F$  to support the carrier, the sleeve  $E$ , operating around the stationary standard  $D$ , the arms  $F'$  and  $F''$ , securely fastened to said sleeve, the mechanism to raise and lower the carrier, and the hood  $W$ , with chute  $w$ , to deliver the straw onto the carrier, as described, and for the purpose specified.

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

WILLIAM C. SWINDLER.

Witnesses:

BERNH. J. LIZIUS,  
GOTTF. KOEHLER.