(No Model.)

M. T. REEVES.

STRAW STACKING MACHINE.

No. 252,623. Patented Jan. 24, 1882.

Fig. 1

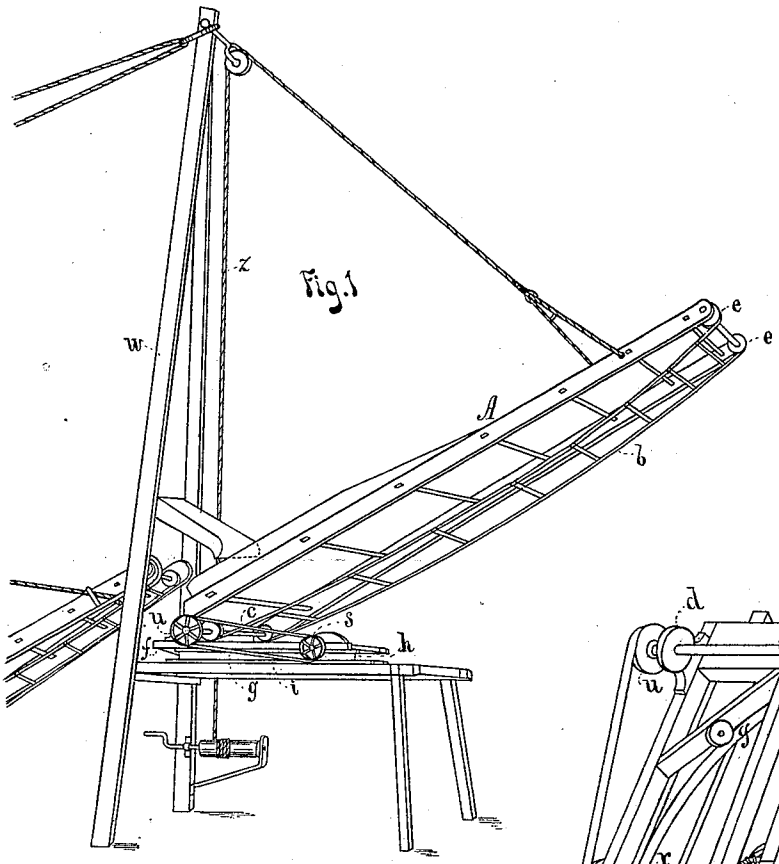
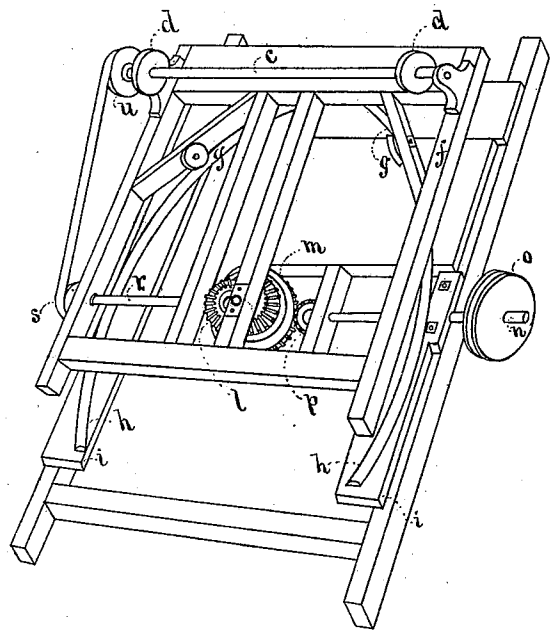


Fig. 2



Witnesses.

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UNITED STATES PATENT OFFICE.

MARSHAL T. REEVES, OF COLUMBUS, INDIANA.

STRAW-STACKING MACHINE.

SPECIFICATION forming part of Letters Patent No. 252,623, dated January 24, 1882.

Application filed August 27, 1881. (No model.)

To all whom it may concern:

Be it known that I, MARSHAL T. REEVES, a resident of Columbus, county of Bartholomew, State of Indiana, have invented a new and useful Improvement in Straw-Stackers, of which the following is a specification, reference being had to the accompanying drawings.

This invention relates to devices for receiving the straw from thrashing machines and automatically building it into stacks, and especially to that class of straw-stacking machines in which the straw-carrier is adjustable both in horizontal and vertical planes, in order to deposit the straw on different spots and at varying heights, as requisite in building the stack.

The said invention consists in the improved construction and combination of parts hereinafter set forth, and more particularly pointed out in the claims.

The accompanying drawings illustrate my invention.

Figure 1 is a side elevation. Fig. 2 is a plan in perspective of the turn-table and its supporting-frame and the driving mechanism, the straw-carrier being removed.

The same letters indicate the same parts in all figures.

A is the straw-carrier, consisting of a wooden chute traversed from end to end in the ordinary manner by an endless belt or chain, *b*. The carrier is hinged at the lower end upon the shaft *c*, the endless chain passing over the flanged driving-pulleys *d d*, Fig. 2, and the idlers *e e*, Fig. 1. The shaft *c* is mounted upon and revolves in suitable bearings on the frame *f*, as shown. The frame *f* is provided with grooved trucks *g g*, which travel upon the circular track *h*, Fig. 2, and it is secured to the main frame *i* by the pin *l*, which pin is located in the center of the circle described by the track *h*, and serves as a shaft for the double-bevel wheel *m*, and also a pivot around which the frame *f* and the straw-carrier revolve.

Mounted upon the main frame *i* radially in line with pin *l* is a shaft, *n*, to which is fastened the driving-pulley *o* and pinion *p*, which engages the bevel-wheel *m*. A shaft, *r*, is secured in suitable bearings to the frame *f*, radially in line with the pivot-pin *l*, and is provided with a pulley, *s*, and a pinion, *t*, which engages the bevel-wheel *m* also. A belt passes around pulley *s* and pulley *u*, the latter pulley being secured to the shaft *c*. The outer or free end of carrier A is sustained by a rope, *z*, which passes over a pulley, *v*, and thence to a windlass, *x*. The said pulley *v* is suspended from the top of the derrick. The frame *i*, supporting the carrier and its driving mechanism, is supported, at such a distance from the ground as to be near the point of delivery of the straw from the machine, by the framework of the derrick and two additional posts, as shown. A hood or guard, *y*, is secured near the point of delivery of the straw to the carrier, to prevent the wind from blowing the straw and chaff about and to guide it directly to the carrier. The derrick *w* is so placed and arranged that the pulley *v* will be suspended directly over the center of horizontal rotation, so that the carrier may revolve easily, the object of the above-described construction being to enable the straw-carrier to be inclined at any desired angle to the horizon, and also to revolve in a horizontal plane, so that the straw may be distributed over a larger area than heretofore and be easily delivered to the top of a high stack.

The operation of my device is as follows: It is so placed in relation to the point of delivery of the straw from the thrasher that the straw, as it falls, will drop on or near that end of the carrier which is mounted upon the rotary frame *f*, the other end of the carrier being suspended by the rope, derrick, and windlass, so that the carrier is level, as indicated by the dotted lines in Fig. 1. The thrasher is now started, and, motion being imparted to the driving-pulley *o* by a belt carried either from a pulley on the thrasher or from some independent motor, motion is transmitted to the endless belt or chain *b* through the double-bevel wheel *m*, pinion *t*, shaft *r*, pulleys *s* and *u*, and flanged pulleys *d d*. As the straw falls from the thrasher or common straw-carrier connected with it, it is carried to the outer end of carrier A, where it falls on the ground, to be covered by the stack. As the straw and chaff accumulate the outer end of the carrier is pushed around to one side or the other, describing an arc of a circle of which the center of the circular track *h* is the center. As the stack rises the free end of the straw-carrier is raised by the windlass *x* and held at any desired angle.

By the use of my device I am enabled to build

a large stack with but little hand-labor, and thus avoid frequent changes of the position of the thrasher. I also, by the frequent change of position of the free end of the straw-carrier, distribute the chaff evenly through the center of the stack, and thus cover and preserve it, instead of leaving it at the end of the stack, as heretofore, exposed to the weather.

I claim as my invention—

1. In combination with fixed frame *i*, having circular track *h* formed thereon, pivoted frame *f*, trucks *g*, horizontal shaft *c*, and straw-carrier A, attached to said shaft and movable thereon, all constructed and operating substantially as set forth.

2. In combination with frame *i*, frame *f*, centrally pivoted thereto, straw-carrier A, supported at its lower end by shaft *c*, chain or cord *z*, and a windlass for raising and lowering said straw-carrier, and pulley *e*, over which said chain passes, said pulley being arranged vertically above the pivotal point of frame *f*, substantially as and for the purpose set forth.

3. Vertical pin *l*, serving both as a shaft for double-bevel wheel *m* and as a pivot for frame *f*, in combination with frames *f* and *i*, gear-wheels *p m t*, shafts *n* and *c*, and straw-carrier A, substantially as set forth.

In testimony whereof I have hereunto affixed my signature.

MARSHAL T. REEVES.

Witnesses:
H. P. HOOD,
JOHN B. D. TROUT.