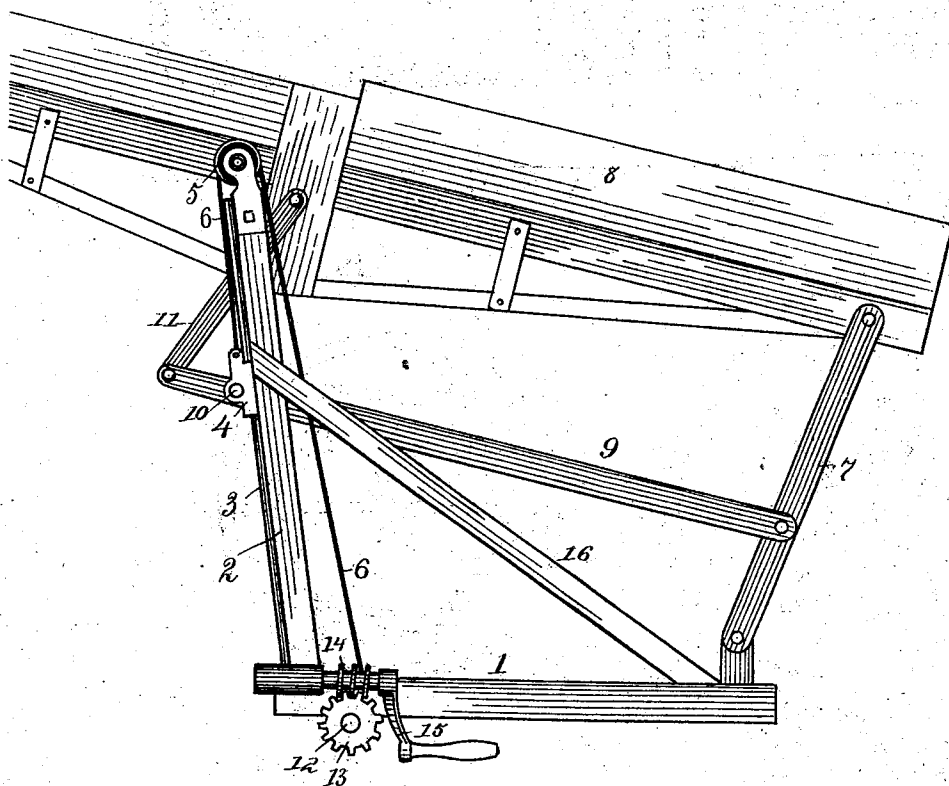


(No Model.)

M. & C. HEINEKE.
STRAW STACKER.

No. 501,939.

Patented July 25, 1893.



ATTEST

Helen Graham
William Graham

INVENTORS
and Charles
MARTIN HEINEKE
By their attorney
L. P. Graham

UNITED STATES PATENT OFFICE.

MARTIN HEINEKE, OF SPRINGFIELD, AND CHARLES HEINEKE, OF
CARLINVILLE, ILLINOIS.

STRAW-STACKER.

SPECIFICATION forming part of Letters Patent No. 501,939, dated July 25, 1893.

Application filed September 24, 1892. Serial No. 446,805. (No model.)

To all whom it may concern:

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

This invention relates to stackers that oscillate horizontally and automatically in order to deliver the straw in a segment of a circle, and that move toward the stack as they are elevated in order to equalize the weight above the turn-table and project the delivery end properly over the stack.

As the general structure of such stackers is well known to persons skilled in such matters, we have confined the illustration in the drawing forming part of this specification to our particular improvements and the parts that are intimately associated therewith; the figure being a side elevation of the stacker elevating mechanism.

The base of the rotating portion of the stacker is shown at 1, and such base is intended to turn on a horizontal circular track in the customary manner. The standard 2 rises from the front end of the base, and is braced in an approximately vertical position by bar 16, or in any suitable manner. It has a guide way 3 on its front edge, and block 4 slides on such guide. Cable 6 runs over pulley 5 in the upper end of standard 2, and connects at one end with block 4 and at the other end with a drum on shaft 12. Swinging support 7 connects pivotally at its lower end with the rear end of the base and at its upper end with the rear end of the stacker frame 8. Bar 9 connects pivotally at its rear end with support 7 and at its forward end with block 4, the pivotal junction being indicated at 10. Link 11 connects the extreme front end of bar 9 with the stacker frame 8, both connections being pivotal. This feature of the device is operated by turning crank 15 and imparting the motion thereof to shaft 12, through worm 14 and wheel 13, and causing the cable

to wind or unwind, according to the direction of the motion. As the cable is wound up the block rises, carrying with it the front end of bar 9 and so causing the link to elevate the stacker frame, and simultaneously the increasing obliquity of bar 9 causes such bar to draw on support 7 and swing the stacker frame forward. As the stacker frame rises its delivery end is for some time so nearly horizontal that there is but little tendency to recede from the stack, but the higher the stacker is raised the more rapid is the backward swing. This effect is precisely neutralized by my above described construction, as the sliding block draws but little on the bar 9 until the stacker frame is inclined upward to a considerable extent, and the higher the elevation the more rapidly is the frame carried forward.

One side only of the elevating mechanism is shown in the drawing but it will be understood that the opposite side is substantially a duplicate of that shown.

Having thus described our invention, we claim as new and desire to secure by Letters Patent—

In stackers, the combination of the base frame, the standard rising from the front end of the base, the sliding block guided on the standard, the swinging support at the rear end of the base, the stacker frame carried at its rear end by the swinging support, the draft bar connecting the sliding block with the swinging support, the link between the front end of the draft bar and the stacker frame, and means for raising and lowering the block on the standard, substantially as set forth.

In testimony whereof we sign our names in the presence of subscribing witnesses.

MARTIN HEINEKE.
CHARLES HEINEKE.

Witnesses for Martin Heineke:

FRANK KABURICK,
W. T. REYNOLDS.

Witnesses for Charles Heineke:

ROBERT BACON,
P. C. DAVENPORT.