(No Model.)

J. M. WISHART.

HAY STACKER.

No. 302,877. Patented July 29, 1884.

Fig. 1.

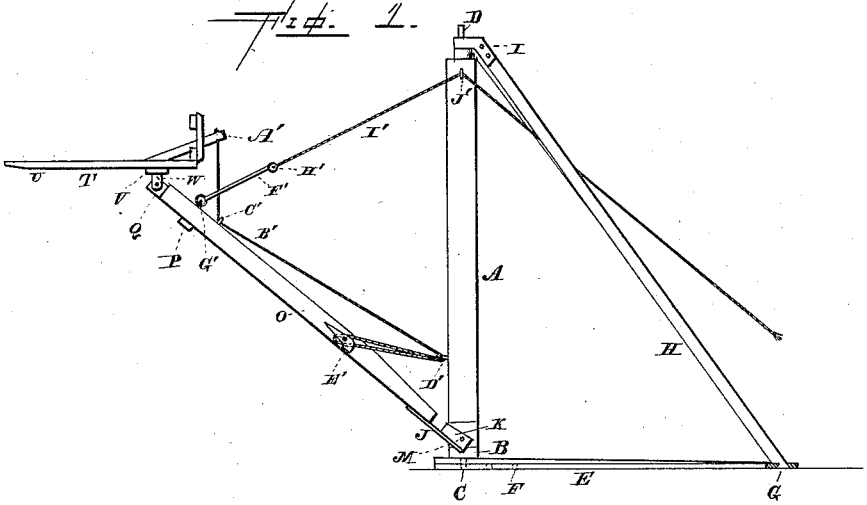


Fig. 2.

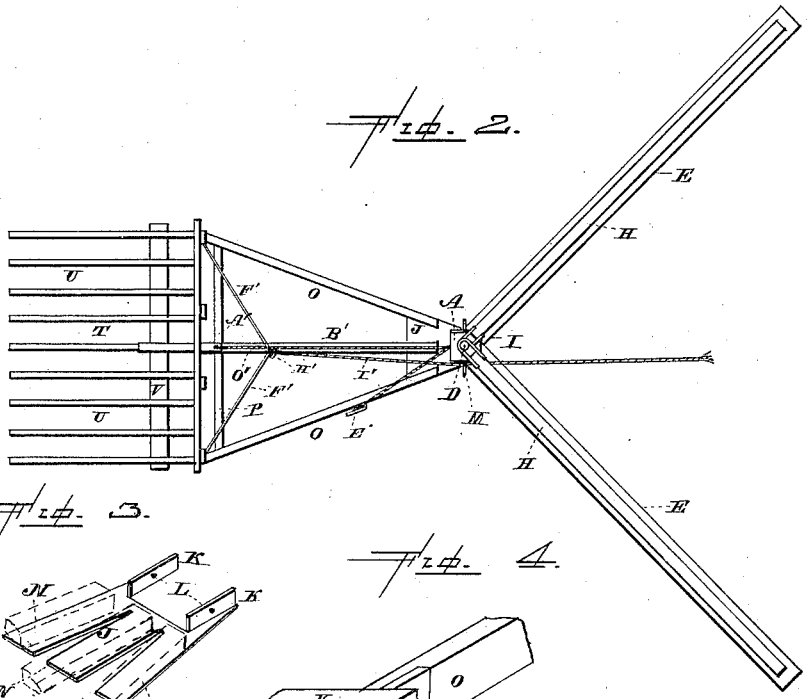
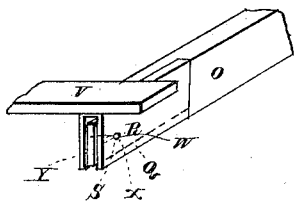


Fig. 3.

Fig. 4.



Witnesses.

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JAMES M. WISHART, OF NORTH TOPEKA, KANSAS.

HAY-STACKER.

SPECIFICATION forming part of Letters Patent No. 302,877, dated July 29, 1884.

Application filed April 16, 1884. (No model.)

To all whom it may concern:

Be it known that I, JAMES M. WISHART, of North Topeka, in the county of Shawnee and State of Kansas, have invented certain new and useful Improvements in Hay-Stackers; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it pertains to make and use it, reference being had to the accompanying drawings, which form part of this specification.

My invention relates to an improvement in hay-stackers; and it consists in, first, the carrier-frame composed of two arms and cross-bar, and casting having diverging forward projections, to which the rear ends of the two arms are secured, and rearward angular projections, and a pivotal bolt, in combination with the post, a carrier-fork pivoted to the outer ends of the two arms, and suitable means for hoisting the frame and discharging the fork; second, the casting having forward diverging extensions and rearward angular extensions provided with openings and a pivot-bolt, in combination with a post, an elevating-frame, and means for elevating the frame, as will be more fully described hereinafter.

In the accompanying drawings, Figure 1 is a side elevation of my invention. Fig. 2 is a top plan view of the same. Fig. 3 is a detached perspective of the device for hinging the elevating-frame to the post. Fig. 4 is a similar view of the front end of one of the arms of the elevating-frame, showing the manner of pivoting the carrier-fork thereto.

A represents a post that is provided at its lower end with a metallic socket, B, which is bolted thereto. From the lower end of the center of the post projects a pivotal pin, C. The upper end of the post is reduced in size, and forms a pivotal projection, D.

E represents sills that are provided at their inner ends with a series of perforations, F, and at their outer ends with the mortises G. These mortises are longer at the lower sides than on their upper sides, and are adapted to retain in them the tenoned lower ends of the brace-bars H. The post A is pivoted upon the inner ends of the sills, as shown, and the braces H are provided at their upper ends with metallic straps or castings I, which encircle the pivotal upper projection of the post A, and thus secure it vertically in position, while allowing it to be freely rotated.

J represents a casting, which is provided on its rear side with the rectangular extensions K, having in their rear ends the openings L, through which a pivot-bolt, M, passes for the purpose of securing them to the socket that is bolted to the lower end of the post. The casting is further provided with the forward diverging extensions, N, to which the rear ends of the arms O of the elevating-frame are securely bolted. These arms diverge outwardly from the central arm, as shown, and are connected near their outer ends by a cross-bar, P, which is bolted on their under sides. To the outer ends of the arms O are bolted the metallic extensions Q, which extensions are provided with the angular bearing-flanges R, for securing them rigidly upon the ends of the arms, and with the openings S, through which pivotal bolts pass for the purpose of securing the carrier-fork thereto.

T represents a carrier-fork of any suitable construction, which is provided on its under side, near its rear end, with a cross-bar, V, that is bolted to the under sides of the teeth U. To the under side of the cross-bar are bolted the inverted-U-shaped castings W, which form depending ears, which are provided with the openings X. Pivotal bolts Y pass through the ears and through the metallic extensions P of the arms O. To the upper side of the central tooth of the carrier-fork is bolted a rearwardly-extending arm, A′. To the rear end of this arm is secured a rope, B′, which passes through a sheave, C′, that is secured on the upper side of the central arm, O′, and extends backward and passes through a similar sheave, D′, that is secured to the post A, near its lower end. From this point the rope passes out to a latch, E′, that is pivoted on the outer side of one of the arms O.

F′ represents rods that are secured by means of staples G′ to the upper sides of the arms O, near their outer ends. The inner ends of these rods are connected to a ring, H′. The rods F′ form a bail for the elevating-frame.

I′ represents a rope that is secured to the ring H′, and that passes through a sheave, J′,

that is secured near the upper end of the post A. From the sheave the rope extends outward to any desired point, and to the outer end is attached a horse for the purpose of elevating the frame and carrier-fork in the usual way. The inner end of the rope B′ being attached to the arm O by the latch E′, the carrier-fork will always maintain a horizontal position while being elevated, as shown in dotted line, in Fig. 1. After the fork has been swung around over the stack the latch is tripped, which releases the rope B′, which causes the carrier-fork to assume a vertical position and discharge the load of hay upon the stack.

The operation of my invention will be readily understood from the foregoing description, and by reference to the accompanying drawings.

A hay-stacker thus constructed is exceedingly strong and simple in its construction, is operated easily, is very durable, and is not liable to get out of order.

Having thus described my invention, I claim—

1. The carrier-frame composed of the arms O O′, cross-bar P, and casting I, having diverging forward projections, to which the rear ends of the arms O O′ are secured, and rearward angular projections and a pivot-bolt, in combination with the post A, a carrier-fork pivoted to the outer ends of the arms O, and suitable means for hoisting the frame and discharging the fork, substantially as described.

2. The casting I, having the forward diverging extensions, N, and the rearward angular extensions, K, provided with openings and a pivot-bolt, in combination with a post, an elevating-frame, and means for elevating the frame, substantially as set forth.

In testimony whereof I affix my signature in presence of two witnesses.

JAMES M. WISHART.

Witnesses:
W. A. SCOTT,
IRWIN TAYLOR.