

(No Model.)

C. N. HAWORTH.
HAY STACKER.

No. 474,246.

Patented May 3, 1892.

Fig. 1.

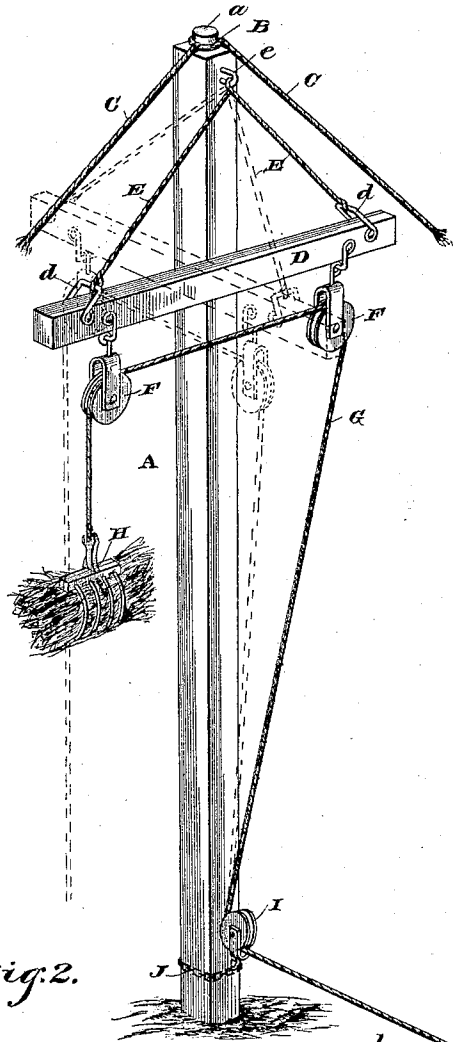
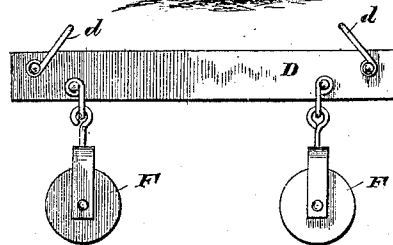


Fig. 2.



Witnesses

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CHARLES N. HAWORTH, OF PROMISE CITY, IOWA.

HAY-STACKER.

SPECIFICATION forming part of Letters Patent No. 474,246, dated May 3, 1892.

Application filed November 5, 1891. Serial No. 410,998. (No model.)

To all whom it may concern:

Be it known that I, CHARLES N. HAWORTH, a citizen of the United States, residing at Promise City, in the county of Wayne and State of Iowa, have invented a new and useful Hay-Stacker, of which the following is a specification.

This invention relates to hay-stackers; and it has for its object to provide a stacker simple in construction and one that by an easy manipulation is adapted to take hay from the ground at a variety of points within a large radius and can place the hay upon the stack at various points without removing the same from its original position.

With these and many other objects in view, which will readily appear as the nature of the invention is fully understood, the same consists in the novel construction, combination, and arrangement of parts hereinafter more fully described, illustrated, and claimed.

In the accompanying drawings, Figure 1 is a perspective view of a hay-stacker constructed in accordance with my invention. Fig. 2 is a detail side view of the pulley cross-bar.

Referring to the accompanying drawings, A represents a vertical upright or post suitably secured upon a base or in the ground at a point adjacent to the hay to be stacked and near the places where it is designed to stack the same. The extreme upper end of said upright or post is provided with a reduced portion or tongue *a*, over which is placed a clamping ring or band B, to which are secured the guy-ropes C, extending therefrom to any suitable point at which the same may be drawn taut to firmly brace said upright in its vertical position. A swinging cross-bar D is flexibly suspended from near the upper end of said upright by means of the converging flexible ropes or chains E, connected with swinging couplings *d* at each end of said cross-bar and with a single hook or eye *e*, secured in said upright, which hook or eye forms a pivotal support for the bar, thus allowing the same to be swung upon any side of said post for the purpose of elevating the hay to the stack, while the bar also bears against the sides of the upright, which serves as a ful-

crum therefor during its swinging movement. From each end of said cross-bar are loosely suspended the swiveled pulleys F, over both of which the single elevating-rope G is designed to pass. One end of said rope, which may be either end, according to the location of the hay, is connected with an ordinary hay-fork H, that is designed to grasp the hay from the load and elevate it to the stack, while the other end of said rope G passes through the guide-pulley I, fastened to the bottom of said upright by a chain J, looped therearound so as to permit said pulley to turn on any side of the stacker according to the location of the suspended cross-bar. The free end of said rope is connected with any suitable power, the ordinary horse-power being preferably employed.

It can be readily seen that when the stacker is in its normal position the cross-bar hangs in such a position that the end over which the fork is working hangs directly over the place of stacking. In pulling the fork down to the load to fill the same with hay the cross-bar is swung around lengthwise with the stack, and then by drawing upon the elevating-rope the hay is hoisted to the desired height, and in swinging around back to its normal position the cross-bar will cause the hay to be swung the full length of the stack, the fork of course being tripped at any desired point at which it is desired to drop the hay.

Having thus described my invention, what I claim, and desire to secure by Letters Patent, is—

In a hay-stacker, the combination of a braced vertical upright or post, a horizontal swinging cross-bar, converging flexible connections connecting each end of said cross-bar to the upper end of said post or upright, at which point is formed a pivotal support for the bar, allowing the same to swing to either side of the upright in a horizontal plane and bear against the same as its fulcrum, swiveled pulleys loosely hung from each end of said cross-bar, a guide-pulley flexibly connected to the lower end of said upright to allow the same freedom of movement therearound, and an operating and hoisting rope

passing over said swiveled pulleys parallel
with and below the bar under said guide-
pulley and connected at one end with a hay-
fork suspended from one end of said cross-
5 bar and with suitable operating mechanism
at the other end, substantially as set forth.

In testimony that I claim the foregoing as

my own I have hereto affixed my signature in
the presence of two witnesses.

CHARLES N. HAWORTH.

Witnesses:

W. R. BYBE,

I. M. HAZLEWOOD.