(No Model.) 2 Sheets—Sheet 1.

DE WITT C. ROBY.

HAY RACK.

No. 382,328. Patented May 8, 1888.

Fig. 1.

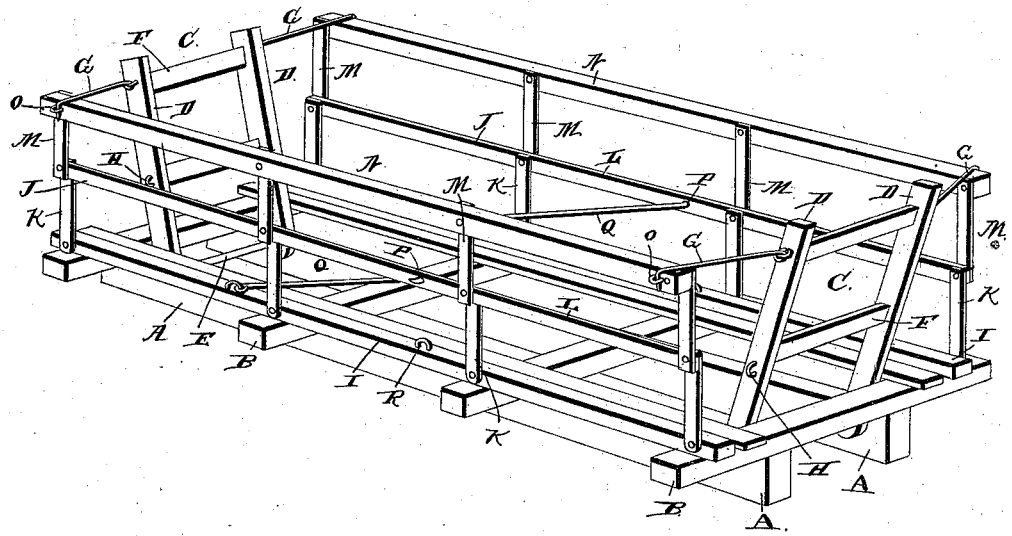
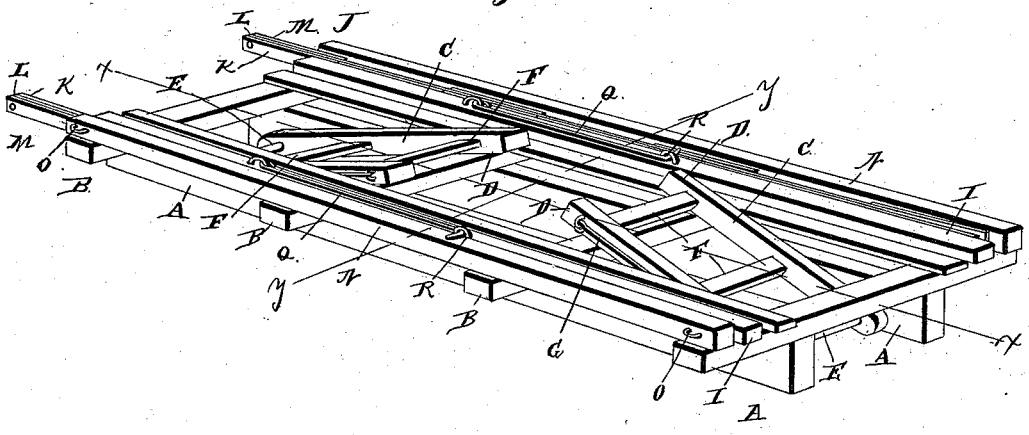


Fig. 2.



Witnesses.
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R. W. Bishop.

Inventor.
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(No Model.) 2 Sheets—Sheet 2.

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Fig. 3.

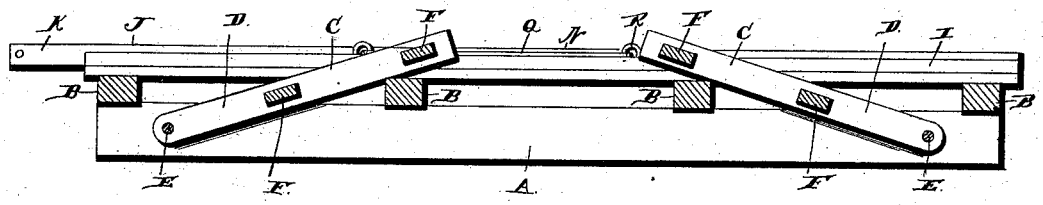
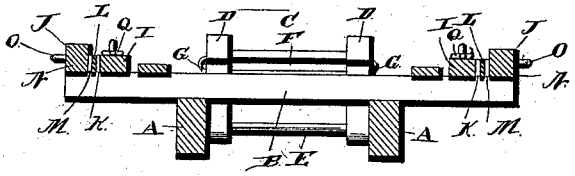


Fig. 4.



Witnesses.
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A. W. Bishop.

Inventor.
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By his Attorneys.
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UNITED STATES PATENT OFFICE.

DE WITT C. ROBY, OF EUREKA, KANSAS.

HAY-RACK.

SPECIFICATION forming part of Letters Patent No. 382,328, dated May 8, 1888.

Application filed January 20, 1888. Serial No. 261,384. (No model.)

To all whom it may concern:

Be it known that I, DE WITT C. ROBY, a citizen of the United States, residing at Eureka, in the county of Greenwood and State of Kansas, have invented new and useful Improvements in Hay-Racks, of which the following is a specification.

My invention relates to improvements in hay-racks; and it consists in certain novel features, hereinafter described and claimed.

In the accompanying drawings, which fully illustrate my invention, Figure 1 is a perspective view of my improved hay-rack extended to receive the load of hay. Fig. 2 is a perspective view of the device folded for storage and transportation. Fig. 3 is a longitudinal section of the device on the line *x x* of Fig. 2, and Fig. 4 is a transverse section on line *y y* of Fig. 2.

Referring to the drawings by letter, A A designate two parallel longitudinal beams, which are mounted on suitable running-gear and form the base of my improved hay-rack.

B B are transverse beams secured to and upon the base-beams A and projecting beyond the same. These transverse beams are four in number, and are secured upon the base-beams at the ends thereof and at equal distances from the ends. At the inner sides of the end transverse beams and to and between the ends of the parallel beams A, I pivotally secure the lower ends of the standards C C. These standards consist of the side bars, D, having their lower ends mounted on a transverse pivot-bolt, E, secured in the parallel beams A, and the cross-bars F, secured between said side bars. At the upper ends of the standards, on the sides of the same, are mounted the hooks G, which are adapted to engage the upper portion of the collapsible side frames when the device is in use, and below these hooks, in the side bars of the standards, are secured eyes or keepers H, which are engaged by the hooks when the device is folded for storage or transportation. Upon the upper sides of the extended portions of the transverse beams I secure the longitudinal bars I, which serve as fenders to prevent the hay falling on the wheels. To the outer edges of the outer bars, I, the collapsible frames J are secured. These frames consist of the bars K, pivoted at their lower ends to the outer bars, I, and having a longitudinal bar, L, pivoted to their upper ends. To this longitudinal bar L, I pivotally secure the lower ends of a series of bars, M, to the upper ends of which I pivotally secure the longitudinal top rail, N. It will thus be seen that the collapsible side frames form, practically, lazy-tongs, and can be readily extended and folded. At the ends of the top rail, N, in the sides of the same, I secure the keepers O, and when the frames are extended these keepers are engaged by the hooks G of the standards, to prevent the falling of the standards and swaying of the side frames. In order to give still further rigidity to the side frames, I provide the central longitudinal bars, L, thereof with a transverse perforation, P, which is engaged when the frame is extended by a hook-brace, Q, which is mounted on the bars I. When the frame is folded, these hook-braces are prevented from swinging by being engaged in and held by keepers R, secured upon the side bars, I.

In practice, when it is desired to load the rack, the standards and the side frames are extended, as shown in Fig. 1, and as hereinbefore described. When it is desired to fold the device for storage or transportation, the several parts are folded into the position shown in Fig. 2. In this position the standards will fold over on the inner beams, B, while the side frames will fold down upon and be supported by the outer ends of said beams, thus forming a very compact device.

It will be seen that I have provided a very simple and efficient hay-rack, which will be especially advantageous when it is desired to house the same in a low stable or shed, or when it is desired to ship large numbers of the racks at one time, as will be readily understood.

Another very advantageous feature of my rack is its adjustability to different kinds of feed. By raising the ends and lowering the sides I provide a rack especially adapted for carrying shock corn or fodder, and by raising both ends and sides I provide a rack which is adapted to receive hay and protect the same in strong winds.

I am aware that hay-racks have heretofore been provided with side frames which were hinged to the base and in practice swung over and away from the base. Such a device I disclaim. So far as I am aware, no hay-rack has heretofore been provided with extensible side

frames which, when not in use, are folded down into a very compact form on the base, and when being extended rise through a true vertical plane.

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

1. A hay-rack comprising a base and extensible frames secured to the sides thereof, substantially as set forth.

2. A hay-rack comprising a base, extensible frames secured to the sides thereof, and hook-braces secured to the base and adapted to engage the extensible frames when they are raised, as set forth.

3. A hay-rack comprising a base having the keepers R, the extensible side frames secured to the sides of the base, and the hook-braces secured to the base and adapted to engage the frames when the same are raised, and when they are lowered to engage the keepers R, as set forth.

4. A hay-rack comprising a base and the folding frames on the sides thereof, the said frames consisting of a series of vertical and horizontal bars pivoted to each other and to the base, substantially as set forth.

5. The improved hay-rack herein described and shown, comprising the beams A, the transverse beams B, secured thereto and projecting beyond the same, the standards pivoted to the beams A, and the folding side frames, the said frames consisting of the bars I, secured to the projecting ends of the beams B, the bars K, pivoted to the bar I, the bar J, pivoted to the bars K, the bars M, pivoted to the bar J, and the bar N, pivoted to the bars M, substantially as specified.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

DE WITT C. ROBY.

Witnesses:
G. W. KIDD,
EDWIN CASE.