

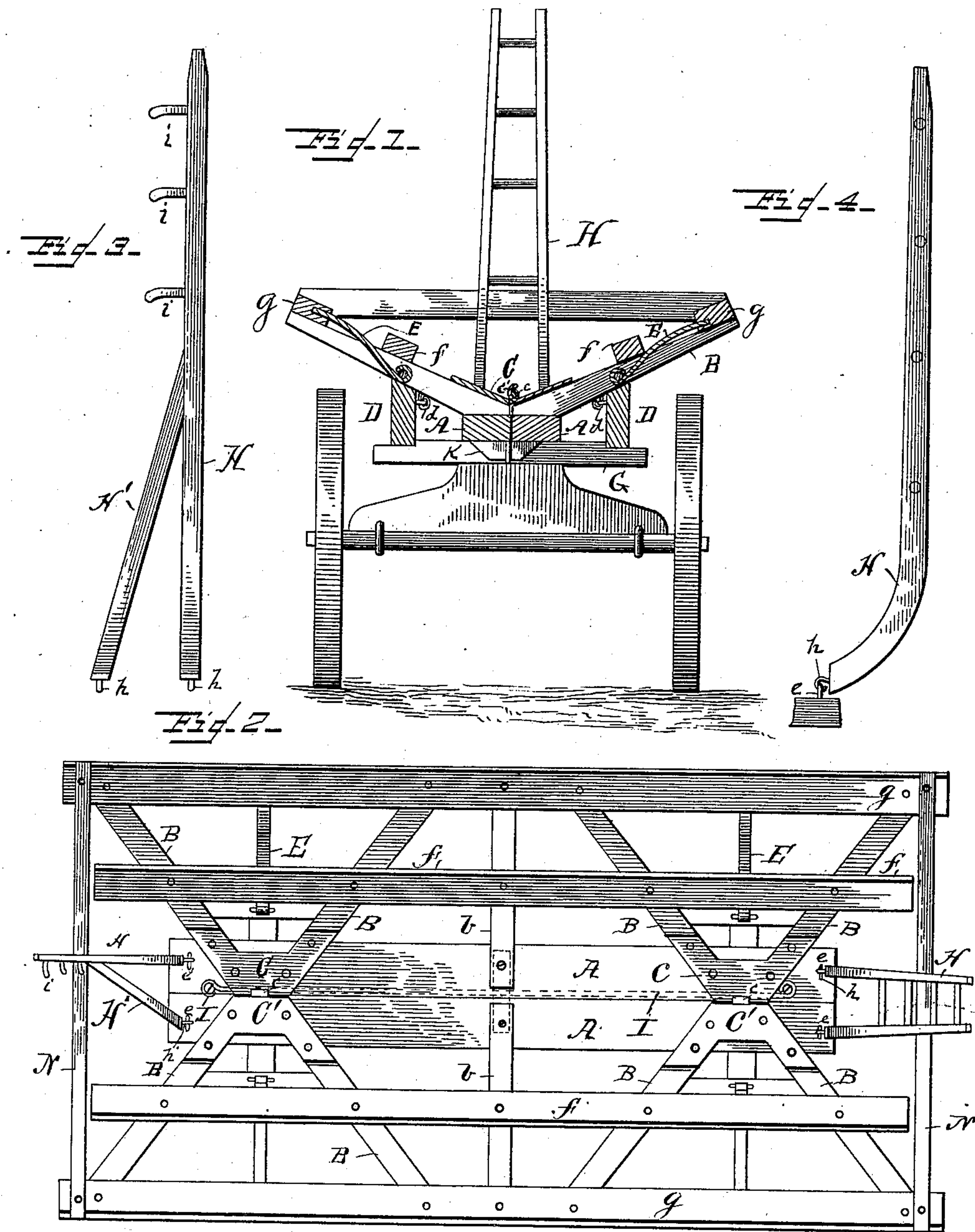
(Model.)

W. D. MILLER.

HAY RACK.

No. 370,743.

Patented Sept. 27, 1887.



Witnesses
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UNITED STATES PATENT OFFICE.

WILLIAM D. MILLER, OF MERMILL, OHIO.

HAY-RACK.

SPECIFICATION forming part of Letters Patent No. 370,743, dated September 27, 1887.

Application filed December 23, 1886. Serial No. 222,356. (Model.)

To all whom it may concern:

Be it known I, WILLIAM D. MILLER, a citizen of the United States, residing at Mermill, in the county of Wood and State of Ohio, have
5 invented certain new and useful Improvements in Hay and Wool or Barrel Racks; and I do 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 apper-
10 tains to make and use the same, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon, which form a part of this specification.

My invention relates to racks for hay, wool,
15 barrels, and other bulky articles.

The object of my invention is to provide a rack that can be easily and quickly taken apart or placed in position upon a wagon.

To this end it consists, first, in two central
20 longitudinal supporting-pieces detachably hinged together and forming with their other parts two sections; second, a central longitudinal truss-rod secured to one of the longitudinal supports and passing over a plate forming a bearing for the other longitudinal support;
25 third, spring-blocks pivotally secured beneath the rack, whereby said blocks can be turned inwardly to rest on the rack-section or turned outwardly to rest upon the ends of
30 the wagon-body; fourth, in detachable rack-standards at each end of the rack-body, and, fifth, in the hinged end supports.

The various parts of the device, their mode of joining and operation are shown in the accompanying drawings, in which—

35 Figure 1 is an end view of the rack placed upon the running-gear of a wagon; Fig. 2, a plan view of the rack joined together; Fig. 3, a detached view of one of the end standards; and Fig. 4, a detail view of the other standard, showing the means for securing it to the longitudinal supports.

Referring more particularly to the drawings, it will be seen that the device consists of
45 two longitudinal supporting-pieces, A. At or near each end thereof V-shaped braces B are secured and flare outwardly. At the points where these braces are secured to the said pieces I have placed hinges consisting of metallic plates C C', one of which, C, has a lip, c', and the other a hook, c, engaging it. This
50 permits me to un hinge the two sections and

take them apart. Underneath the central pieces and secured to one of them is a truss-rod, I, which bears centrally upon a plate, 55 K, which is attached to the same piece A as the truss-rod. The opposite end of the plate supports the other longitudinal piece; hence it will be seen that additional strength is given to the rack-frame without interfering with the
60 detachability of the sections.

Underneath and between each V-shaped brace B resting-blocks D are pivoted to said braces and have secured to their central part one end of a flat spring, E, the opposite end 65 of said spring being joined to the upper longitudinal bar, g. These blocks rest on the false bolsters of the wagon, as shown in Fig. 1, and form an additional support for the load on the rack. They are turned down vertically when 70 in use, as shown in Fig. 1; but when the rack-sections are detached they are turned inward parallel to the side of the sections, and are thus out of the way, the springs in each case acting to hold them in position. I also place inter- 75 mediate longitudinal pieces, f, for additional strength and to form a crating for the articles carried. At the forward end of the rack I place a rack-standard consisting of one vertical bar, H, and one diagonal bar, H', having 80 hooks h, engaging eyes e on the forward end of pieces A. At the upper end of the bar H pieces i extend outwardly to form a rest for such articles as hay or wool. The rear end is also provided with a detachable rack, H, also 85 secured to the pieces A by hooks and eyes. Detachable iron bars N assist in giving rigidity to the sections and form a support for the articles carried.

From this construction it will be seen that 90 one man can easily place the rack upon a wagon or detach it therefrom, as the sections can be placed upon the wagon one at a time, hinged together, and the rack-standards then placed thereon. Moreover, such a rack will 95 take up but little room and can be placed upon a barn-floor instead of being placed in a shed or on the ground, as is usually the case.

Having thus described my invention, what I claim as new, and desire to secure by Letters 100 Patent, is—

1. A wagon-rack made in two sections detachably secured together, each section consisting of a longitudinal supporting piece, two

braces having a plate secured thereto, provided with a lip or tongue, and intermediate brace-pieces, substantially as and for the purpose described.

5 2. A wagon-rack made in two sections detachably secured together, each section having a supporting-block pivoted near the ends of the sections, substantially as and for the purpose described.

10 3. A wagon-rack made in two sections, each section having secured to its ends a pivoted

supporting-block, and a spring attached to the block and rack-frame, whereby said blocks are held in an upright or folded position, substantially as and for the purpose described. 15

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

WILLIAM D. MILLER.

Witnesses:

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