(No Model.)

M. WHILES.

HAY RACK.

No. 461,947. Patented Oct. 27, 1891.

Fig. 1.

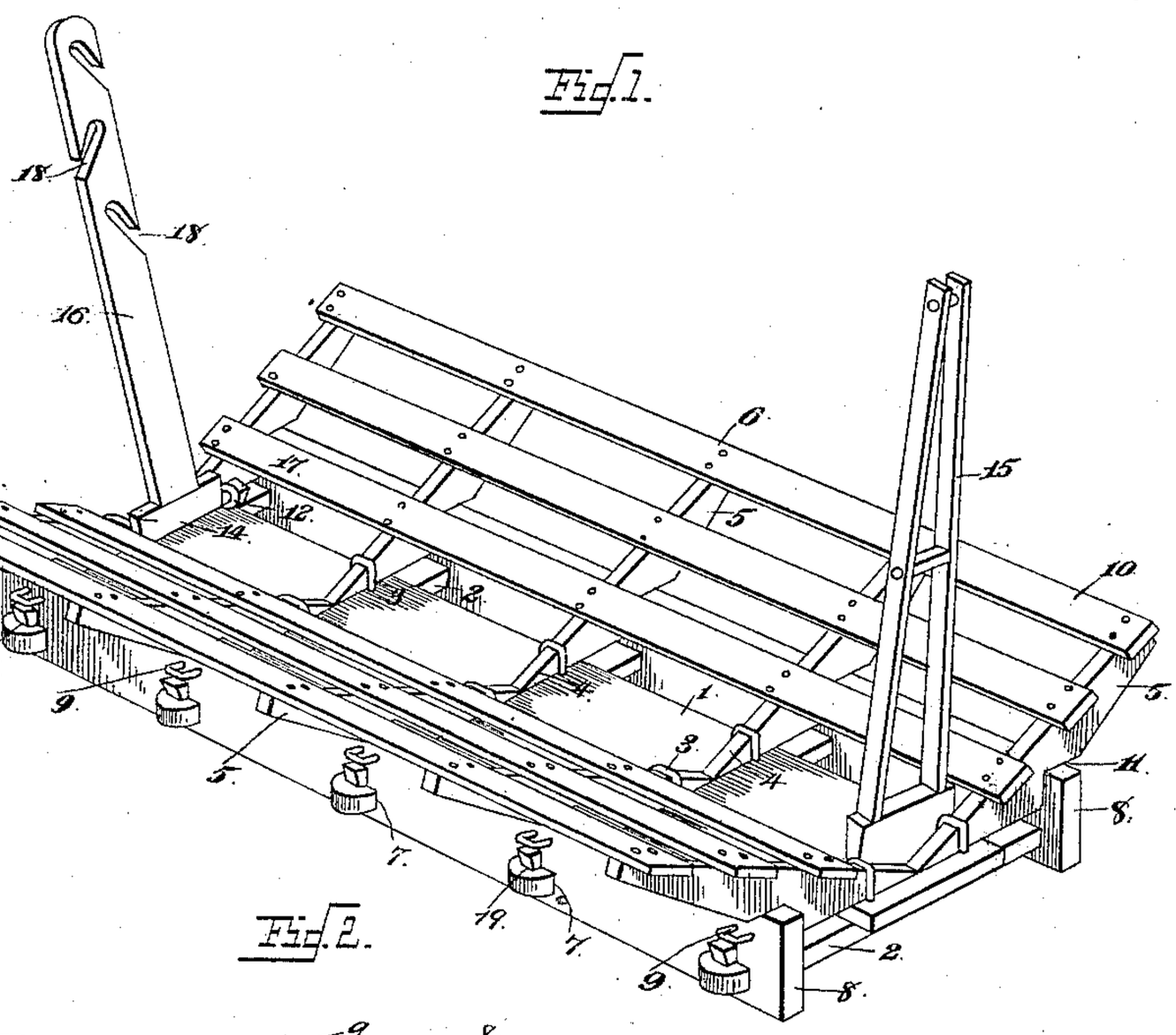


Fig. 2.

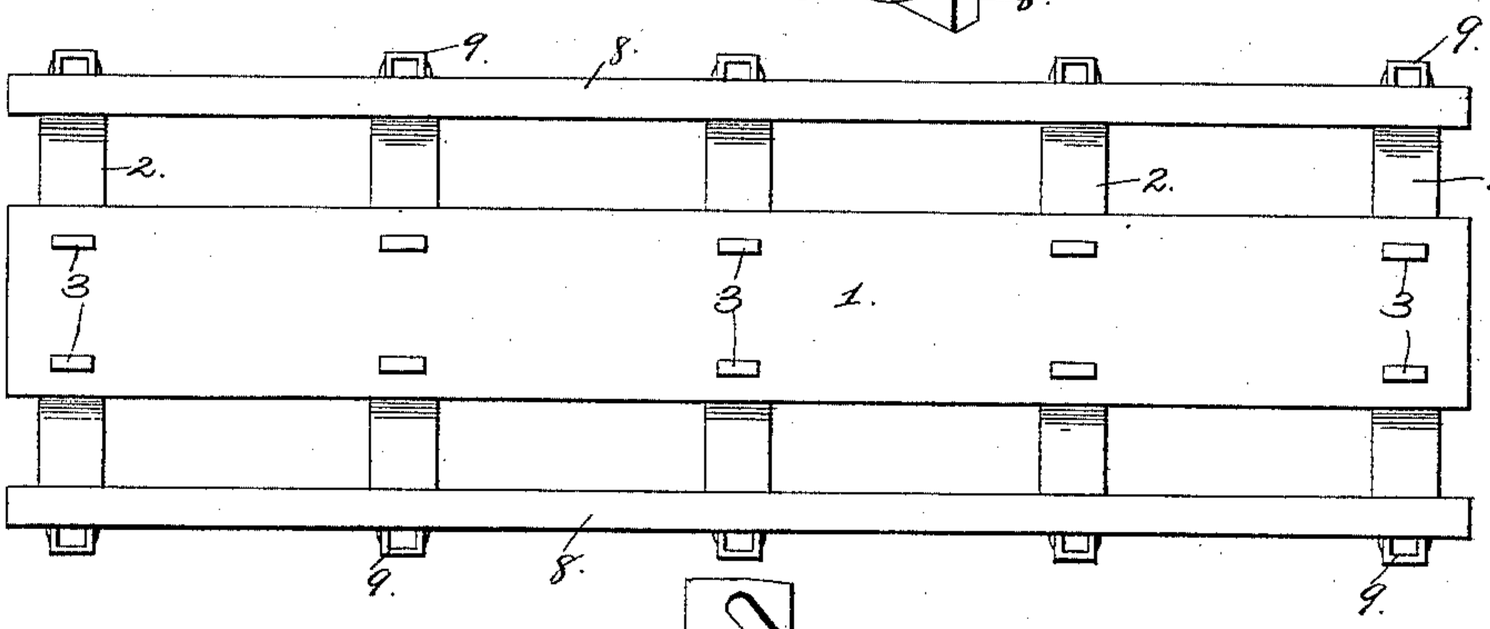
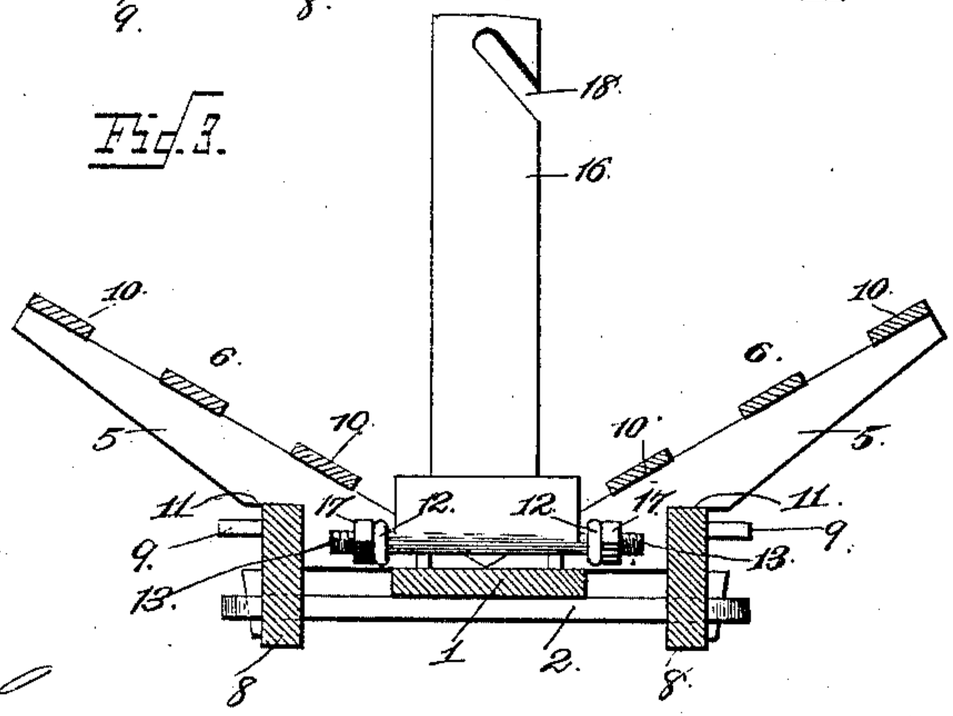


Fig. 3.



Witnesses

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UNITED STATES PATENT OFFICE.

MARIAN WHILES, OF WOODVILLE, MISSOURI, ASSIGNOR OF ONE-HALF TO J. D. SWITZER, OF SAME PLACE.

HAY-RACK.

SPECIFICATION forming part of Letters Patent No. 461,947, dated October 27, 1891.

Application filed May 23, 1891. Serial No. 393,873. (No model.)

To all whom it may concern:

Be it known that I, MARIAN WHILES, a citizen of the United States, residing at Woodville, in the county of Macon and State of Missouri, have invented a new and useful Hay-Rack, of which the following is a specification.

The invention relates to improvements in hay-frames and wood-racks.

The object of the present invention is to provide a simple and inexpensive combined hay-frame and wood-rack adapted to be readily converted from one to the other and designed to be removed from a running-gear when not in use to prevent injury by the weather.

The invention consists in the construction and novel combination and arrangement of parts hereinafter fully described, illustrated in the accompanying drawings, and pointed out in the claims hereto appended.

In the drawings, Figure 1 is a perspective view of a combined hay-frame and wood-rack constructed in accordance with this invention, the wings being in position to form a hay-frame. Fig. 2 is a plan view, the wings being removed. Fig. 3 is a transverse sectional view, the parts being in position illustrated in Fig. 1. Fig. 4 is a detail view showing more clearly how the end standards hold the wings in place.

Referring to the accompanying drawings, 1 designates a longitudinal center piece designed to be mounted on a running-gear and having secured to its lower face cross-bars 2 and provided at intervals with loops 3, which are arranged at intervals on the upper face of the center piece 1 at the sides thereof, and are adapted for the reception of the beveled ends 4 of posts 5 of wings 6. The cross-bars have their ends reduced and arranged in openings 7 of side pieces 8, which are secured by pins, bolts, or the like passing through perforations of the ends of the cross-bars, and which sides are provided at intervals with loops 9, adapted to receive standards when the wings are removed and it is desired to form a wood-rack.

The wings 6 are composed of longitudinal slats 10 and the posts 5, and the latter are arranged in the loops 3 and are provided intermediate their ends with recesses 11, which receive the adjacent edges of the side bars 8, whereby the wings are supported. The end posts of the wings are provided at their beveled ends with eyes 12, which are adapted for the reception of threaded ends 13 of lower cross-bars 14 of standards 15 and 16, and the threaded ends are secured in the eyes by nuts 17, which also secure the wings in position. The standard 16 is provided at its side edges with upwardly-inclined recesses 18, which are adapted for the reception of an end of a ridge-pole, and which enable the same to be adjusted to the size of a load of hay.

When it is desired to use the device as a hay-frame, the parts are arranged as illustrated in Fig. 1 of the accompanying drawings, and the hay-frame is readily converted into a wood-rack by removing the wings 6 and the standards 14 and 15. The loops 9 are arranged above the projecting ends of the cross-bars, and the standards for retaining the wood on the rack are supported by the ends and may engage the perforations 19 of the projecting ends of the cross-bars 2 and secure the side pieces 8 in place.

It will readily be seen that the hay-rack is simple and inexpensive in construction and is adapted to be readily converted into a wood-rack, and that when not in use the parts may readily be removed and conveyed into a suitable structure to protect them from the weather.

What I claim is—

1. The combination of the center piece 1, provided with loops, the wings engaging the loops and having their end posts provided with eyes, and the standards 15 and 16, having cross-bars engaging the eyes and securing the wings in position, substantially as described.

2. The combination of the center piece provided with loops, the wings engaging the loops and provided with eyes arranged on the end posts, the standards 15 and 16, having cross-bars 14, provided with threaded ends arranged in the eyes, and nuts securing the eyes on the threaded ends, whereby the wings are secured in place, substantially as described.

3. The combination of the center piece pro-

vided with loobs, the cross-bars secured to the center piece, the side bars arranged on the ends of the cross-bars, the wings composed of longitudinal slats and inclined posts provided with recesses adapted to receive the side bars 8, the eyes arranged on the end posts of the wings, and the standards engaging the eyes and securing the wings, substantially as described.

4. The combination of the center piece, the cross-bars secured to the center piece and having reduced ends provided with perforations, and the side bars having openings to receive the ends of the cross-bars and provided with loops arranged above the ends and adapted for the reception of standards to engage the perforated ends and secure the side bars in position, substantially as described.

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

MARIAN WHILES.

Witnesses:
J. D. SWITZER,
P. J. BURTON.