L. RHEAULT.

ONE MAN HAY RACK.

APPLICATION FILED SEPT. 14, 1916.

1,219,154.

Patented Mar. 13, 1917.

2 SHEETS—SHEET 1.

FIG. 1.

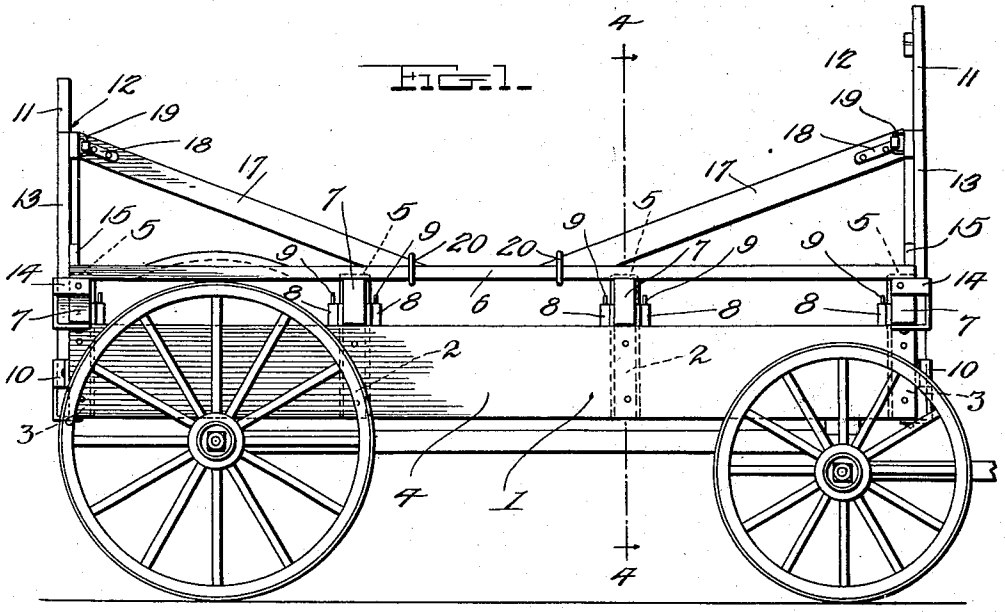
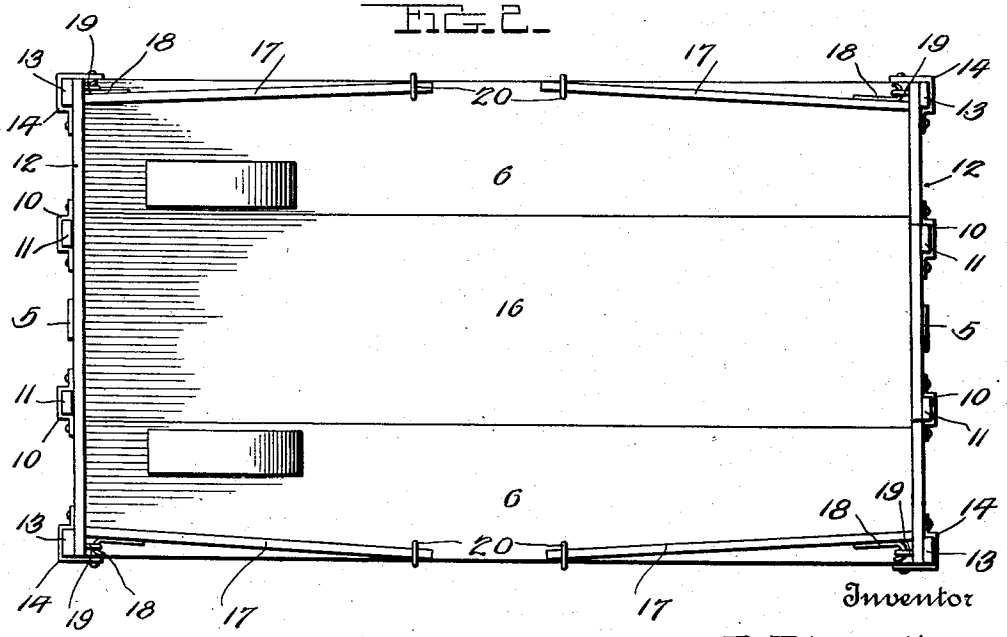


FIG. 2.



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2 SHEETS—SHEET 2.

FIG. 3.

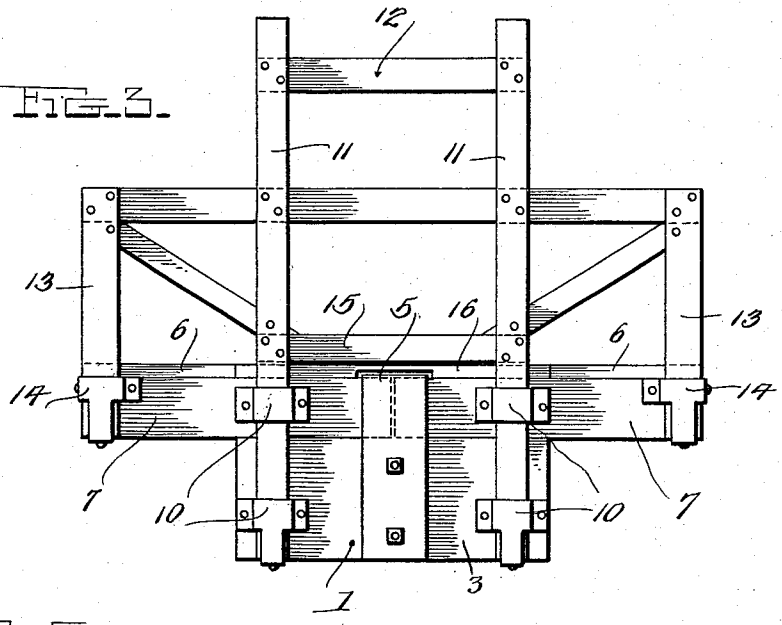


FIG. 5.

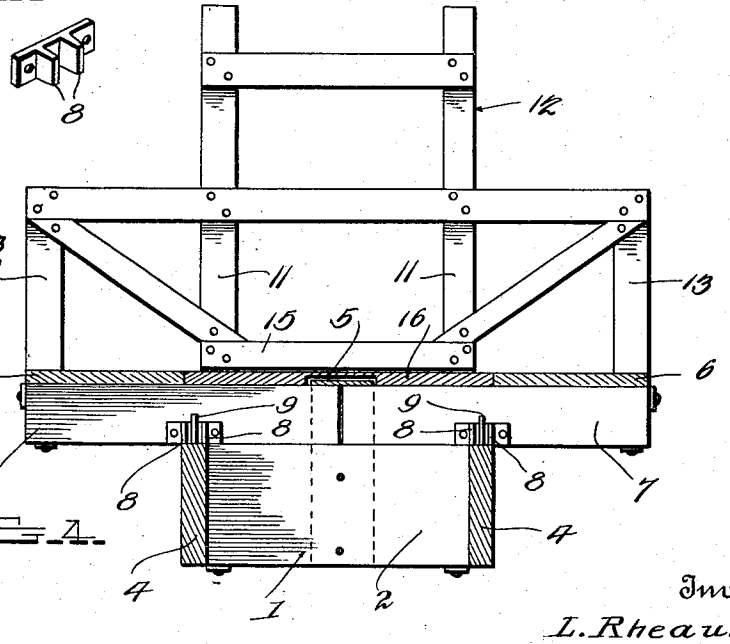


FIG. 4.

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UNITED STATES PATENT OFFICE.

LEON RHEAULT, OF HICKSON, NORTH DAKOTA.

ONE-MAN HAY-RACK.

1,219,154. Specification of Letters Patent. Patented Mar. 13, 1917.

Application filed September 14, 1916. Serial No. 120,117.

To all whom it may concern:

Be it known that I, LEON RHEAULT, a citizen of the United States, residing at Hickson, in the county of Cass and State of North Dakota, have invented certain new and useful Improvements in One-Man Hay-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 appertains to make and use the same.

My invention aims to provide a simply constructed and inexpensive hay rack of such formation as to permit one man to apply it to the running gear of a wagon or to remove it at will, it having heretofore required several hands to lift the rack to and from the wagon.

With the foregoing general object in view, the invention resides in certain novel features of construction and in unique combinations of parts to be hereinafter fully described and claimed, the descriptive matter being supplemented by the accompanying drawings which constitute a part of this application and in which:

Figure 1 is a side elevation of the improved rack and a part of a wagon running gear;

Fig. 2 is a top plan view of the rack;

Fig. 3 is an end elevation thereof;

Fig. 4 is a vertical transverse section on the plane of the line 4—4 of Fig. 1; and

Fig. 5 is a perspective view of one of the stops which prevent endwise shifting of the sills of the floor.

Throughout the several views, the numeral 1 has reference to a rectangular horizontal bed frame which can easily be lifted by one man onto or from the running gear of a wagon, said frame having a plurality of transverse bars 2 between its end bars 3 and secured at their ends to the side bars 4 of said frame. Sockets 5 are carried by the centers of the end bars 3 and the other transverse bars 2, said sockets preferably being formed of metal plates bent into arch shape and bolted or otherwise secured to the opposite sides of said bars.

A pair of side floor sections 6 are provided with sills 7 which extend inwardly therefrom and rest on the bars 2 and 3 with their inner ends received in the sockets 5, said sills having pairs of vertical stops in the form of flanges 8 which straddle pins 9 driven into and rising from the side bars 4. This arrangement prevents endwise shifting of the sills 7 until they are raised so that the flanges 8 are clear of the pins 9. This being done, however, the sections 6 may be removed with their sills and due to their light weight, this operation may be performed by a single person.

Secured to the end bars 3 and to the endmost of the sills 7 are vertically alined stake sockets 10 which receive therein stakes 11 on front and rear vertical end frames 12, said frames having additional stakes 13 received in sockets 14 on the outer ends of the endmost sills. The two frames 11 may easily be attached or detached since they move vertically from the sockets 10 and 14, yet when they are in use they will be rigidly held in place.

The two end frames 12 are provided on their inner sides with transverse horizontal cleats 15 which overlie the ends of a central floor section 16, and retain the same in operative position, said section resting on the sills 7 between the side sections 6.

Inclined braces 17 extend from the sections 6 of the floor to the end frames 12 and are provided at their upper ends with hooks 18 detachably connected with U-bolts or the like 19 carried by said frames, the lower ends of the braces being received in swinging loops 20 which when turned in one direction will release said braces to permit them to be swung laterally for the purpose of disengaging the hooks 18.

By constructing the improved rack in the manner shown and described, it may readily be applied or removed by one person yet when in use, it will be highly efficient. For these reasons, the construction shown constitutes the preferred form of the device but it is to be understood that within the scope of the invention as claimed, numerous changes may be made without sacrificing the principal advantages.

I claim:

1. A hay rack comprising a rectangular bed frame to be placed on a running gear, a pair of side floor sections having inwardly extending sills to rest on said frame, means for detachably holding said sills in operative position, a central floor section to rest on said sills between said side sections, front and rear vertical end frames, means for detachably connecting them to the ends of the

bed frame, and means on said end frames for holding the central floor section in operative position.

2. A hay rack comprising a rectangular bed frame to be placed on a running gear, a pair of side floor sections having inwardly extending sills to rest on said frame, means for detachably holding said sills in operative position, a central floor section to rest on said sills between said side sections, front and rear vertical end frames, means for detachably connecting them to the ends of the bed frame, and horizontal cleats secured to said end frames to overlie the ends of said central floor section to retain said section in operative position.

3. A rack of the class described comprising a rectangular bed frame to be placed on a running gear, said frame including transverse bars and end bars, sockets carried by and disposed above the centers of said transverse and end bars, a pair of side floor sections having inwardly extending sills to rest on said transverse and end bars with their inner ends received in said sockets, vertical flanges carried by the sills and disposed above the side bars of the bed frame, and vertical pins rising from said side bars and abutting said flanges to prevent endwise shifting of the sills until the latter are tilted upwardly.

In testimony whereof I have hereunto set my hand in the presence of two subscribing witnesses.

LEON RHEAULT.

Witnesses:
HUBERT LAUVAGEAU,
EUGENE SAUVAGEAU.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."