M. F. QUINN.

HAY RACK.

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1,184,129.

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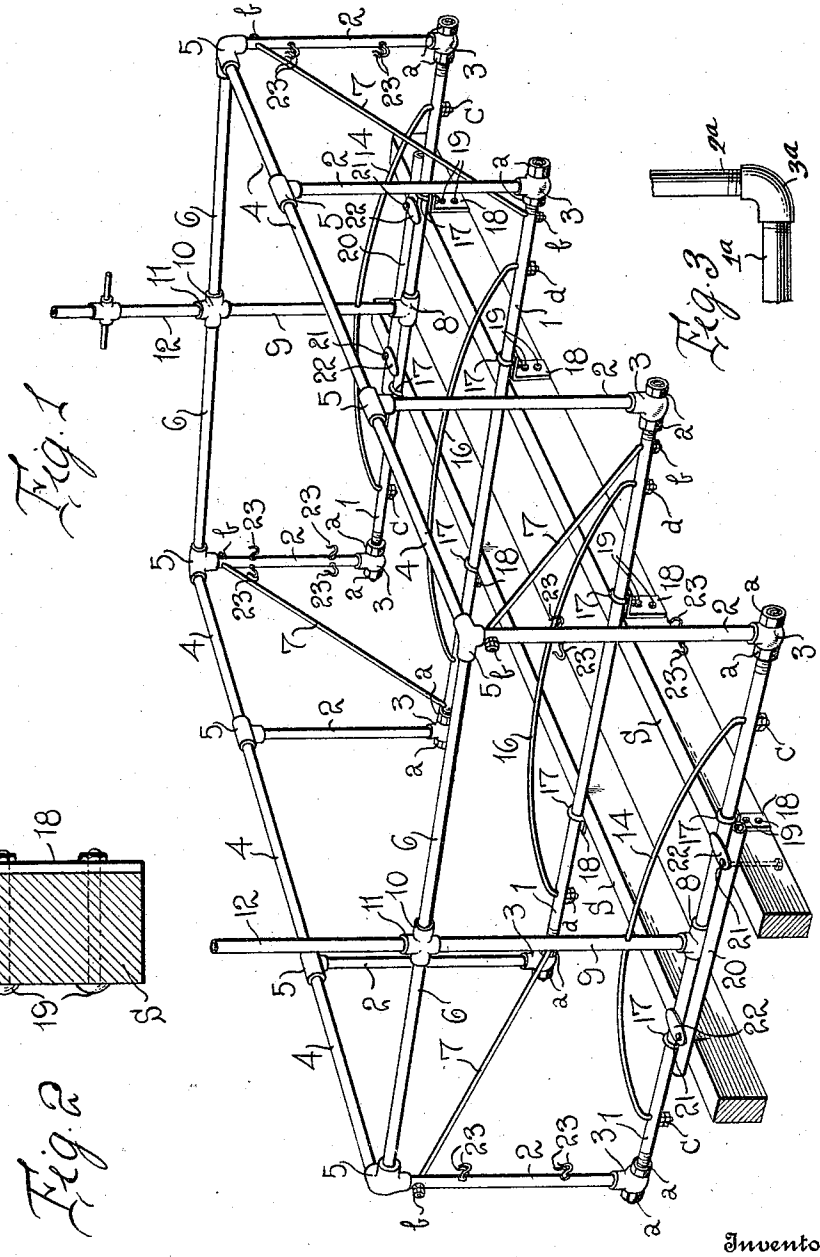


Fig. 1

Fig. 2

Fig. 3

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HAY-RACK.

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To all whom it may concern:

Be it known that I, MATT F. QUINN, a citizen of the United States, residing at Graettinger, in the county of Palo Alto and State of Iowa, have invented certain new and useful Improvements in Hay-Racks, of which the following is a specification, reference being had to the accompanying drawings.

This invention relates to certain improvements in hay racks, and it is an object of the invention to provide a device of this general character constructed of tubular metal so arranged as to be easily knocked down and so braced as to secure the maximum of strength with a minimum of weight.

The invention consists in the details of construction and in the combination and arrangement of the several parts of my improved hay rack whereby certain important advantages are attained and the device is rendered simpler, less expensive and otherwise more convenient and advantageous for use, all as will be hereinafter more fully set forth.

The novel features of the invention will be carefully defined in the appended claims.

In order that my invention may be the better understood, I will now proceed to describe the same with reference to the accompanying drawings, wherein

Figure 1 is a view in perspective illustrating a hay rack constructed in accordance with an embodiment of my invention; Fig. 2 is an enlarged fragmentary view, partly in elevation and partly in section, illustrating a certain detail of the invention as herein embodied; and Fig. 3 is a fragmentary view in elevation illustrating a slightly modified form of my invention.

As disclosed in the accompanying drawings, S—S denote the parallel longitudinal sills of the bed of a wagon truck and on which my improved rack is adapted to be positioned. As herein embodied, my improved rack comprises a plurality of equidistantly spaced parallel tubular members 1 adapted to be disposed transversely of the sills S having their opposite extremities provided with the upstanding tubular members 2, said members being secured to the extremities of the tubular members 1 through the medium of the elbow unions 3 and in threaded engagement with the extremities of the members 1 and arranged at opposite sides of the unions 3 are the nuts *a* whereby said union may be effectively clamped in applied position. The upper extremities of the longitudinally alined members 2 are tied or connected by the tubular sections 4 through the medium of the conventional unions 5 and the adjacent end members 2 are tied or connected by the transversely disposed tubular members 6. The end tubular members are braced or reinforced by the brace members 7 disposed in opposite directions and operatively engaged with the upper extremities of the end members 2 and the lower extremities of the intermediate members 1, said members 7 being directed through the members 1 and 2 and having coacting with their extremities the clamping nuts *b*.

The end members 1 midway their length are each provided with a T-coupling 8 with which is engaged the post section 9 also operatively engaged with the adjacent tubular member 6 through the medium of the cross coupling 10, the upstanding stem 11 of which has engaged therewith the upper section 12 of the post. As is believed to be self-evident, a conventional boom pole is adapted to coact with the upper sections 12.

The lower pole section 9 and the adjacent tubular member 1 have coacting therewith the truss members 14 disposed through the pole section 9 and having their extremities directed through the end members 1, said extremities having threaded thereon the clamping nuts *c* for maintaining the trusses 14 in assembled relation. I also find it of advantage to have the trusses 16 coacting with the intermediate members 1 serving to impart greater rigidity and strength to the rack, said trusses extending above the intermediate members 1, the extremities of said trusses 16 being directed through the members 1 and having coacting therewith the clamping nuts *d*.

The tubular members 1 have secured thereto by the clip bolts 17 the plates 18 each of said plates being substantially in the form of an inverted L with the depending stems thereof secured to the adjacent faces of the sills S by the bolts 19 or the like.

The sills S have also resting thereupon and adjacent the end tubular members 1 the short transverse members 20 held to the sills S through the medium of the bolts 21, said bolts also serving as pivots for the buttons 22 which are adapted to overlie the

end members 1 to afford a further means for maintaining the rack in applied position upon the sills S and particularly before the plates 18 have been secured to the sills.

The corner upright members 2 are provided with the hooks 23 with which wire strands or other retaining members may be engaged in accordance with the necessities of practice.

As illustrated in Fig. 3, it is to be noted that the transverse tubular member 1^a is operatively engaged with the upright 2^a through the medium of a conventional elbow 3^a. If desired, this arrangement may be employed in lieu of that which has hereinbefore been referred to.

From the foregoing description, it is thought to be obvious that a hay rack constructed in accordance with my invention is of an extremely simple and comparatively inexpensive nature and is particularly well adapted for use by reason of the convenience and facility with which it may be assembled, and it will also be obvious that my invention is susceptible of some change and modification without material departure from the principles and spirit thereof and for this reason I do not wish to be understood as limiting myself to the precise arrangement and formation of the several parts herein shown in carrying out my invention in practice.

I claim:

1. In combination with a wagon bed including transverse members supported upon said bed, a hay rack adapted to be rested upon the bed between the transverse members, and buttons pivotally supported by the transverse members and adapted to overlie the adjacent ends of the rack.

2. In combination with a wagon bed including transverse members supported upon said bed, a hay rack adapted to be rested upon the bed between the transverse members, buttons pivotally supported by the transverse members and adapted to overlie the adjacent ends of the rack, and bolts serving to hold the transverse members to the bed and also serving as pivots for the buttons.

3. In combination with a wagon bed including transverse members supported upon said bed, a hay rack adapted to be rested upon the bed between the transverse members, buttons pivotally supported by the transverse members and adapted to overlie the adjacent ends of the rack, said hay rack comprising a plurality of transversely disposed members arranged in longitudinal spaced relation and resting directly upon the wagon bed, and means carried by the wagon bed and detachably coacting with said members to afford a further means for holding the rack upon the bed.

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

MATT F. QUINN.

Witnesses:
J. B. LAMBE,
T. W. DOYLE.

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