

A. WARTZACK.
METAL HAY RACK.
APPLICATION FILED FEB. 24, 1914.

1,127,130.

Patented Feb. 2, 1915.

Fig. 1.

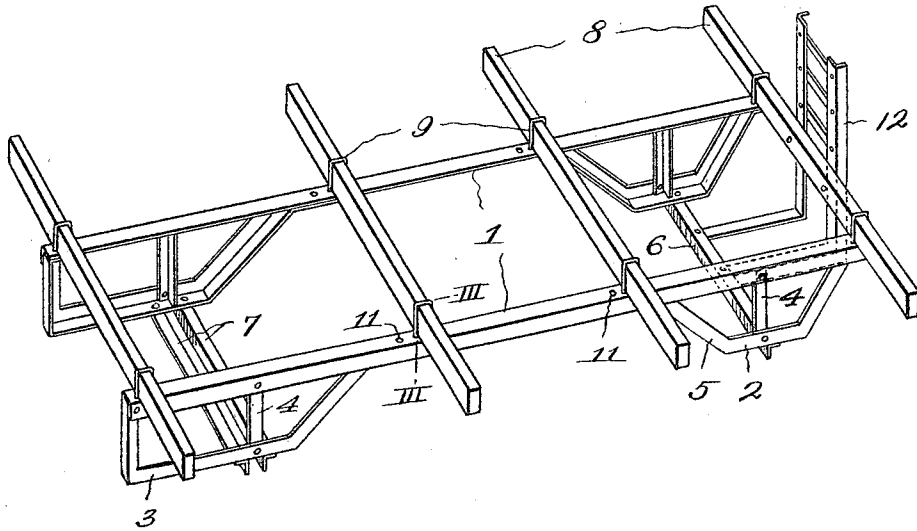


Fig. 2.

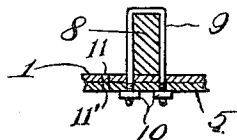
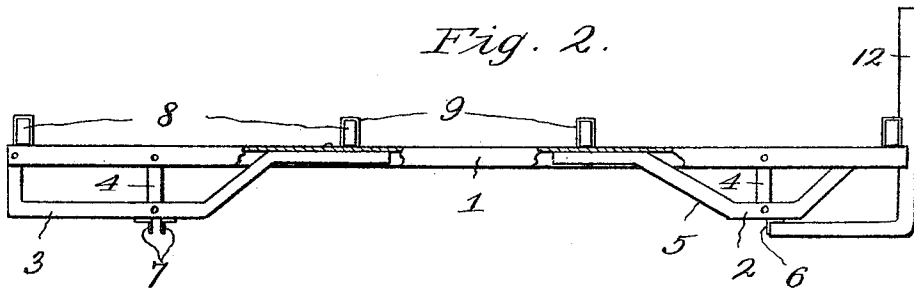


Fig. 3.

WITNESSES:

R. Hamilton
L. J. Fischer

INVENTOR:

August Wartzack

BY *F. G. Fischer,*
ATTORNEY.

UNITED STATES PATENT OFFICE.

AUGUST WARTZACK, OF TONGANOXIE, KANSAS.

METAL HAY-RACK.

1,127,130.

Specification of Letters Patent.

Patented Feb. 2, 1915.

Application filed February 24, 1914. Serial No. 820,583.

To all whom it may concern:

Be it known that I, AUGUST WARTZACK, a citizen of the United States, residing at Tonganoxie, in the county of Leavenworth and State of Kansas, have invented certain new and useful Improvements in Metal Hay-Racks, of which the following is a specification.

My invention relates to improvements in hay-racks, and my object is to produce a light, inexpensive and substantial rack which can readily be placed in position upon the running gear of a wagon, or removed therefrom.

In order to obtain the greatest strength with the least weight, I construct the rack almost entirely of angle-irons.

In order that the invention may be fully understood, reference will now be made to the accompanying drawing, in which:

Figure 1 is a perspective view of the hay-rack. Fig. 2 is a side elevation of said hay-rack. Fig. 3 is a vertical section on line III—III of Fig. 1.

In constructing my hay-rack, a pair of parallel metal sills 1 are arranged in parallel relation to each other and provided at their front and rear portions with trusses 2 and 3, respectively. Said trusses are riveted or otherwise firmly secured at their ends to the sills, and further connected thereto by vertical braces 4 extending upward from the intermediate portions of the trusses.

The rear inclined arms 5 of the trusses 2 are so disposed as to permit the front wheels of the wagon gear (not shown) to pass thereunder when turning a corner.

The front trusses 2 are united at their lower portions by a transverse strut 6 rigidly secured thereto, and the lower sides of the trusses 3 are united by a pair of struts 7. The trusses 2 and 3 are adapted to rest upon the bolsters of the running gear, strut 6 being so disposed as to come just in advance of the front bolster and the struts 7 being spaced a short distance apart to admit the rear bolster, the opposite sides of which the struts 7 are adapted to engage and thus prevent the rack from shifting longitudinally upon the running gear when going up or down grade.

The upper sides of sills 1 are united by a

plurality of cross-bars 8, secured upon said sills by U-bolts 9 which pass downward through the sills and are engaged by nuts 10. The sills 1 are provided with a plurality of perforations 11 adjacent to the intermediate cross-bars 8, so that said intermediate cross-bars, together, with the U-bolts 9 may be adjusted forward or backward to adjust the weight of the load thereon either toward or away from the adjacent ends of the trusses.

12 designates a ladder extending forwardly and upwardly from the front strut 6, to which it is rigidly secured, said ladder constituting a convenient means for climbing upon or off a load of hay resting on the rack. Said ladder also assists in securing the load upon the rack.

The inner ends of the arms 5 have their horizontal webs formed with a plurality of perforations 11' which register with the perforations 11 of the sills, so that when the arms of the U-bolts are engaged with certain of the registered perforations, said bolts not only serve as securing means for the cross-bars 8, but also to clampingly hold the rear ends of the arms 5 in engagement with the sills, as clearly shown in Fig. 3 of the drawing.

From the foregoing description, it is apparent that I have produced a hay-rack embodying the features of advantage above enumerated, and while I have shown and described the preferred form of my invention, I reserve the right to make such changes in the construction, combination and arrangement of parts as properly fall within the spirit and scope of the claim.

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

A hay rack comprising a pair of angle iron sills having a plurality of perforations formed therein, trusses connected to the front and rear ends of the sills, said trusses consisting of substantially U-shaped angle iron arms, the upper inner ends of said arms having their horizontal webs engaged with the horizontal webs of the sills, the horizontal webs of said arms having a plurality of perforations formed therein corresponding to the perforations of the horizontal webs

of said sills, for registry with the perforations of the sills, clips carried by the sills and having portions interchangeably engaging the perforations of the sills and arms
5 to hold the latter in tight engagement with said sills, and cross bars engaged by the clips.

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

AUGUST WARTZACK.

Witnesses:

F. G. FISCHER,
FRED C. FISCHER.

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