

S. DICKSON.

Hay Rack.

No. 112,559.

Patented Mar. 14, 1871.

Fig 1.

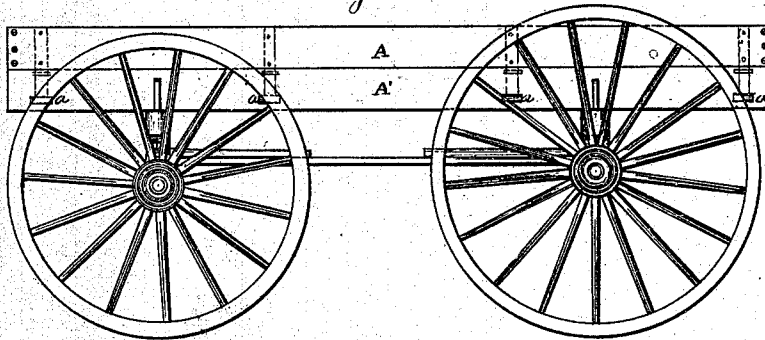


Fig 3.

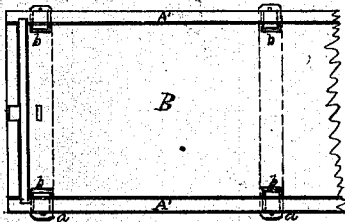


Fig 2.

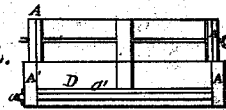


Fig 4.

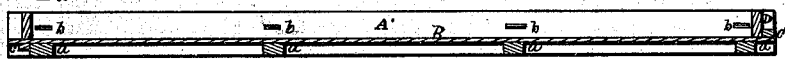


Fig 5.

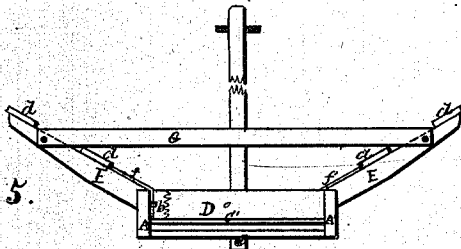


Fig 6.

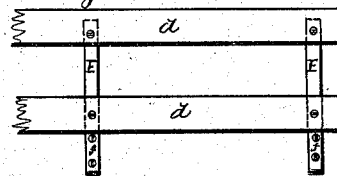
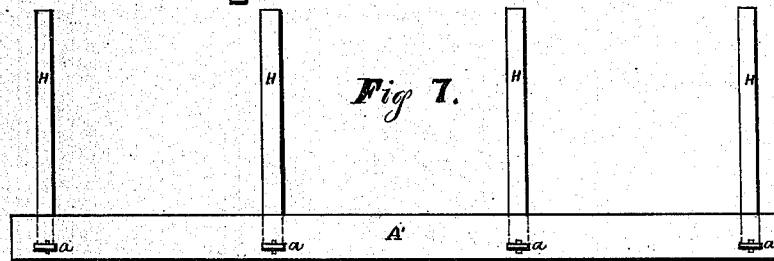


Fig 7.



Witnesses
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SAMUEL DICKSON, OF SANDWICH, ILLINOIS.

Letters Patent No. 112,559, dated March 14, 1871.

IMPROVEMENT IN WAGON-BOXES AND HAY-RACKS.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern :

Be it known that I, SAMUEL DICKSON, of Sandwich, in the county of De Kalb and State of Illinois, have invented a new and useful Improvement in Wagons; and I do hereby declare the following to be a full, clear, and exact description thereof, which will enable others skilled in the art to which my invention appertains to make and use the same, reference being had to the accompanying drawing forming part of this specification, in which—

Figure 1 is a side elevation of a wagon with my improvement attached;

Figure 2 is an end view of the box;

Figure 3 is a plan or top view of a portion of the same;

Figure 4 is a vertical longitudinal central section through the same;

Figure 5 is an end view of the same, with parts attached, forming a hay-rack;

Figure 6 is a plan or top view of a portion of the rails employed in forming the same; and

Figure 7 is a side elevation of my improvement when changed to a wood-rack.

Similar letters of reference indicate corresponding parts in the several figures of the drawing.

My invention has for its object to arrange a wagon-box in such a manner as to be readily changed to a hay or wood-rack; and

The nature of my improvement consists in the mechanical construction of the same, a description of which will be hereinafter fully given.

In the accompanying drawing—

A and A' indicate the sides of the box.

The lower portion A' is made of thicker material than is used in the ordinary box, and connected laterally at the bottom by a system of girts, *a a a a*.

I provide the inner sides of said lower portion with staples *b b b b*, which receive the lower end of cleats secured vertically to the inner sides of the upper portion A, by which means the parts are secured together.

B indicates the bed or bottom board, which is closely fitted to the sides, and provided at the forward end with a cleat, C, which comes in contact with and against the outer side of girt *a*.

Attached to the upper side of said bottom board, at the opposite end, is a like cleat, C', which comes in contact with and against the outer side of the end

board D of the box, thus securing the same in a firm and fixed position.

E indicates a series of girts, to which are attached rails *d d*, which form the sides and bottom of the hay-rack.

To the inner ends of said girts E, and on the upper side of the same, I secure metal straps *f*, the inner ends of which are bent downward in a manner which will admit of passing into said staples, and thus bring the ends of girts E in contact with and against the outer sides of box A', by which the same are held in a proper and fixed position.

G is a girt or tie, which extends across from side to side of the rack, and is firmly secured to girts E at or near their outer ends, the object of which is to connect the sides of the rack.

H indicates a series of upright posts, to the lower end of which is fitted metal plates or straps, which are secured in said staples *b*, whereby a cheap, convenient, and durable wood-rack is formed.

The operation of changing my invention from a wagon-box to a hay-rack is as follows:

I remove the upper portion of the sides A, and attach to the lower portion A' the sides and bottom of the hay-rack, by introducing into staples *b* the straps *f* of girts E, which I then connect by girt or tie G across the top. Thus a durable and convenient hay-rack is obtained.

Having thus described the nature and object of my invention,

What I claim as new, and desire to secure by Letters Patent, is—

1. The bottom board B, provided with cleats C and C', arranged as described, in combination with sides A A', the whole constructed substantially in the manner and for the purpose specified.

2. The girts E, provided with straps *f* and tie-girt G, in combination with side board A', the whole arranged substantially in the manner and for the purpose set forth.

3. The sides A A', girts E, straps *f*, tie-girt G, and upright H, the whole arranged in combination, substantially in the manner and for the purpose described.

SAMUEL DICKSON.

Witnesses:

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