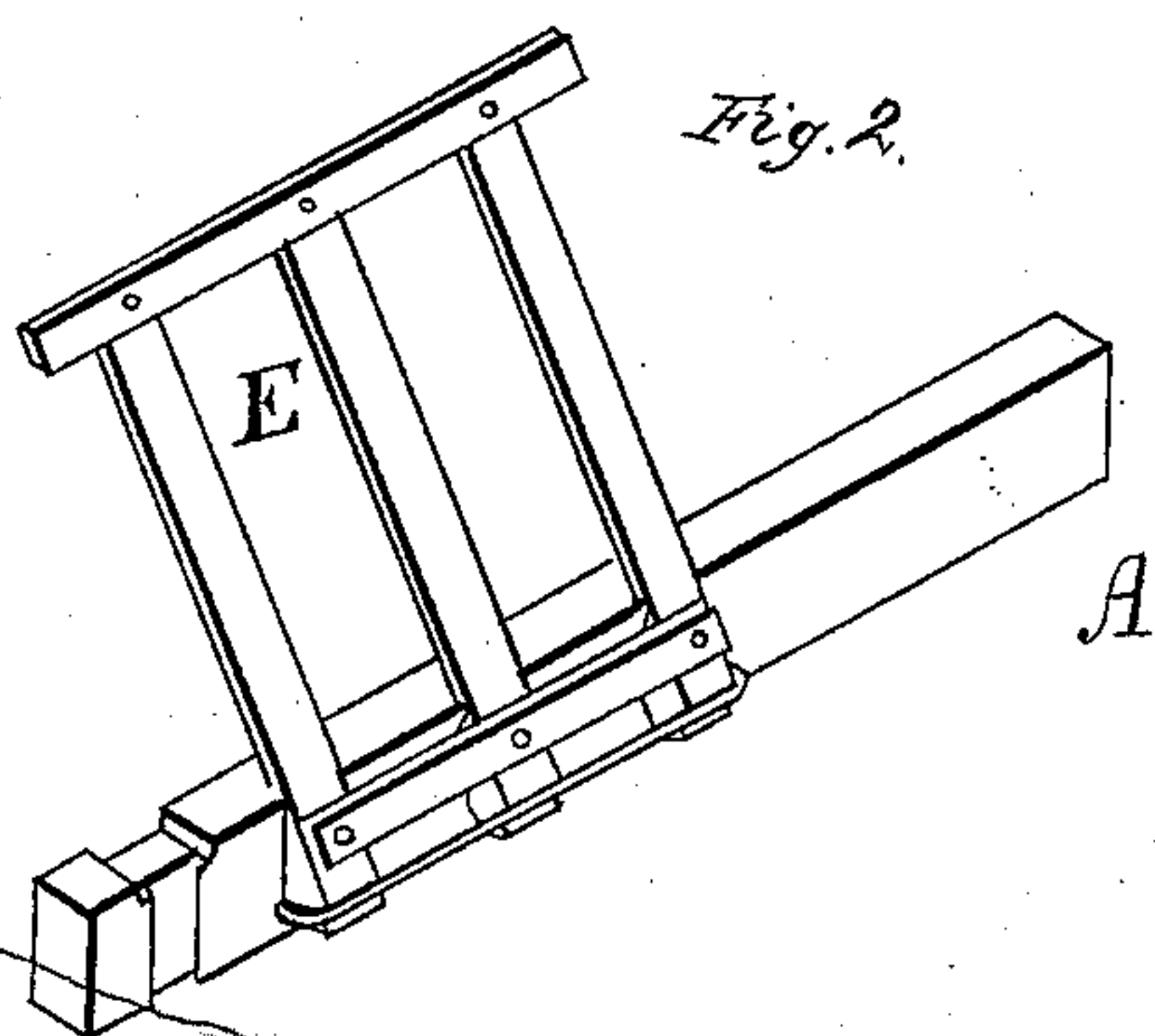
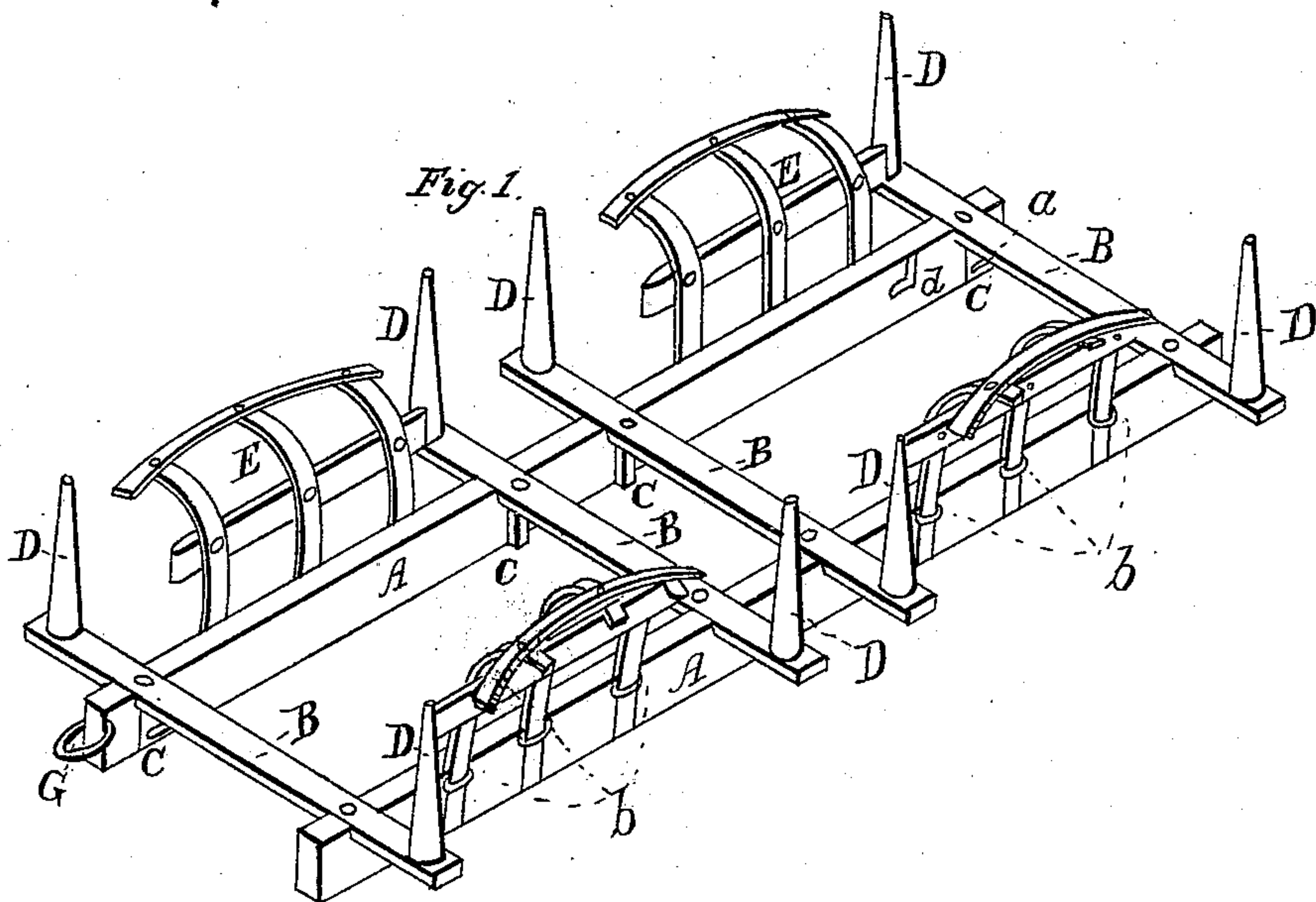


J. A. HUGHES.

Hay Rack.

No. 104,313.

Patented June 14, 1870.



Witnesses  
*John A. Ellis*  
*Henry W. Miller*

Inventor  
*John A. Hughes*  
By  
*T. F. Alexander*



# United States Patent Office.

JOHN A. HUGHES, OF TINDALL, MISSOURI.

Letters Patent No. 104,313, dated June 14, 1870.

## IMPROVEMENT IN HAY-SHELVES OR RACKS FOR WAGONS.

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, JOHN A. HUGHES, of Tindall, in the county of Grundy and State of Missouri, have invented certain new and useful Improvements in Hay-Racks; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings and to the letters of reference marked thereon which form a part of this specification.

The nature of my invention consists in the construction and arrangement of a hay-rack for wagons, which can readily be taken to pieces and put up again, when desired.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawings, in which—

Figure 1 is a perspective view of the hay-rack, and Figure 2 is a modification of the fender shown in fig. 1.

A A represent two planks, of suitable dimensions, set edgewise, parallel with each other, and a suitable distance apart.

In the upper edges of these planks are cut four recesses, one near each end, and two a suitable distance apart, near the center. From the center of each of these recesses, on the inner sides of the planks, is a vertical dovetailed groove.

Across the two planks A A, in the recesses in their upper edges, are laid four cross-bars, B B, which are, on their under side, provided each with two wedge-shaped posts, C C, braced to the bar by braces, a a, and said posts are inserted in the dovetailed grooves on the inner sides of the planks A A, thus joining the planks and cross-bars together in one frame.

On the ends of the cross-bars B B are secured upright tapering posts, D D.

On the outside of the planks A A, between the center and end cross-bars, are vertical grooves, each having a staple, b, secured over it, and in these grooves and staples are inserted the wheel-fenders, E E.

These fenders may be either curved, as shown in fig. 1, or straight, as represented in fig. 2.

On the inside of the planks A A, near the front end, are cut L-shaped gains, d d, for the ladder to work in, and at the ends of said planks are loops or clevises, G G, for the purpose of securing the rack to the wagon.

This rack, it will be seen, although made in separable pieces, is very substantial, simple, and easy to adjust by one man or boy, and saves the heavy lifting required to put on and take off the common hay-racks. It can readily be taken to pieces and hung up under shelter, when not in use, thus making it last longer than otherwise would be the case.

Having thus fully described my invention,

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

1. The planks A A, provided with recess and dovetailed grooves, as described, and with L-shaped gains d d, and staples b b, substantially as and for the purposes herein set forth.

2. The cross-bars B B, provided with posts C C, braces a a, and posts D D, all substantially as and for the purposes herein set forth.

3. The fenders E E, constructed either straight or curved, and inserted in the grooves, and staples on the outer sides of the planks A A, substantially as shown and described.

4. The combination of the planks A A, cross-bars B B, posts C C and D D, fenders E E, and loops or clevises G G, all constructed and arranged as described, so that they can readily be put together and taken apart, substantially as and for the purposes herein set forth.

In testimony that I claim the foregoing as my own, I affix my signature in presence of two witnesses.

JOHN A. HUGHES.

Witnesses:

W. V. DENSLOW,  
J. M. HERT.