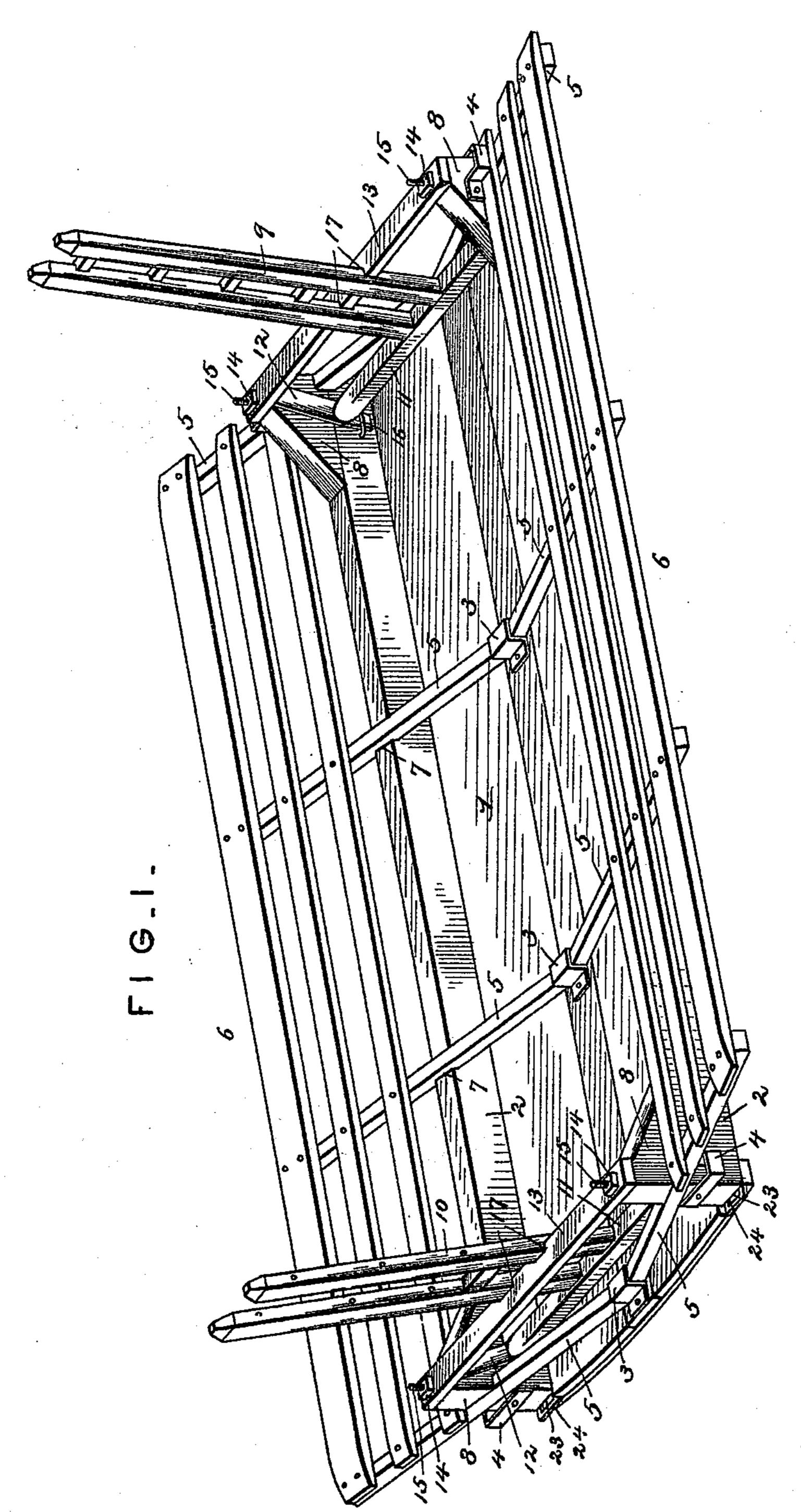
## L. SHANABARGER. HAY AND STOCK RACK.

No. 516,578.

Patented Mar. 13, 1894.



Inventor

Witnesses

Harry L. ames.

Lewis Shanabarger.

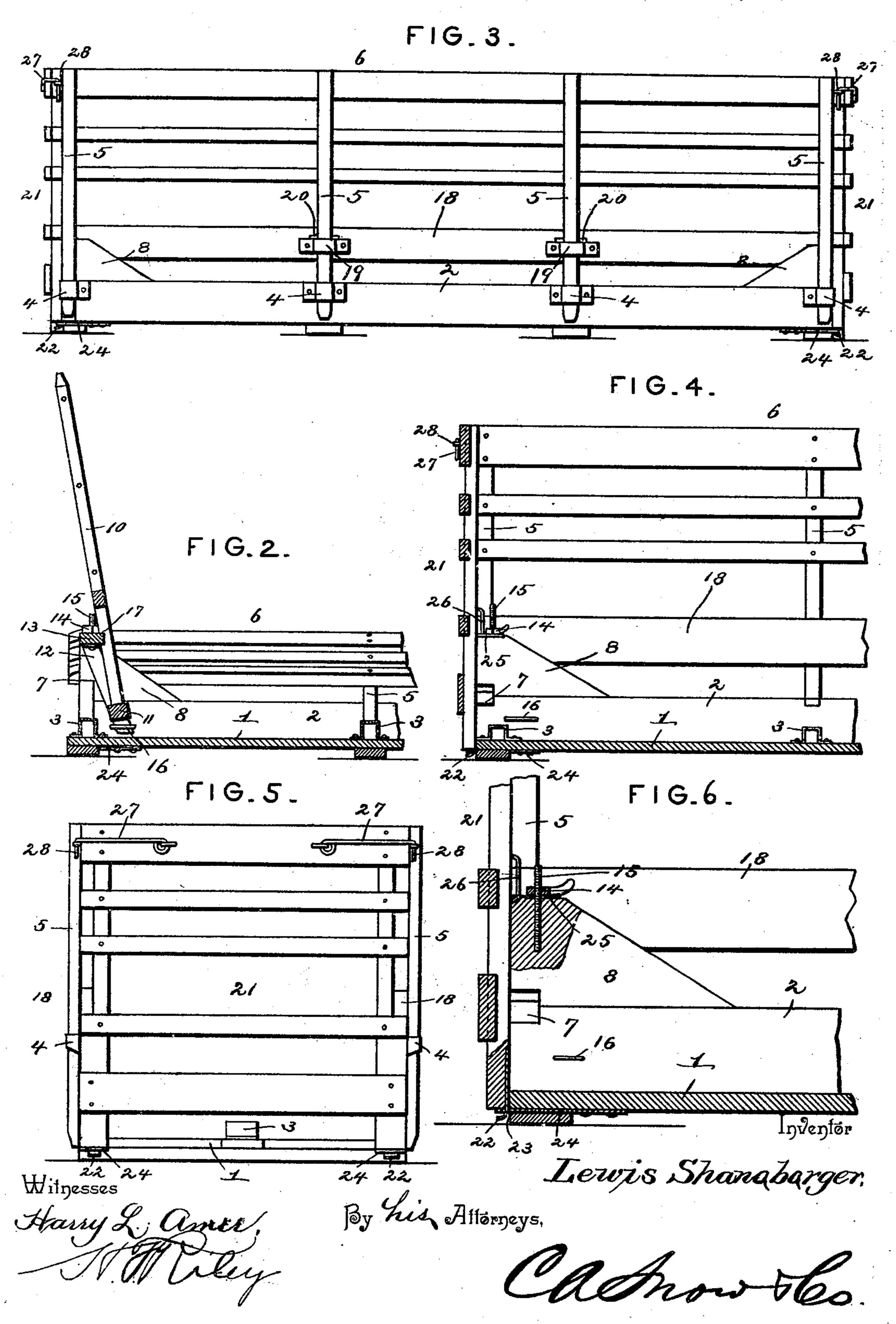
By his Allorneys.

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## UNITED STATES PATENT OFFICE.

LEWIS SHANABARGER, OF MULBERRY, INDIANA.

## HAY AND STOCK RACK.

SPECIFICATION forming part of Letters Patent No. 516,578, dated March 13, 1894.

Application filed September 9, 1893. Serial No. 485,178. (No model.)

To all whom it may concern:

Be it known that I, LEWIS SHANABARGER, a citizen of the United States, residing at Mulberry, in the county of Clinton and State of 5 Indiana, have invented a new and useful Hay and Stock Rack, of which the following is a specification.

The invention relates to improvements in

hay and stock racks.

The object of the present invention is to improve the construction of combined hay and stock racks, and to provide a simple and inexpensive one which may be readily converted from a hay rack into a stock rack and vice 15 versa.

The invention consists in the construction and novel combination and arrangement of of parts hereinafter fully described, illustrated in the accompanying drawings and pointed

20 out in the claims hereto appended.

In the drawings—Figure 1 is a perspective view of a combined hay and stock rack, the parts being arranged to form a hay rack. Fig. 2 is a longitudinal sectional view of the same. 25 Fig. 3 is a side elevation showing the parts arranged to form a stock rack. Fig. 4 is a longitudinal sectional view of one end of the same. Fig. 5 is a rear elevation, the parts being arranged as shown in Fig. 3. Fig. 6 is a verti-30 cal sectional view, illustrating the manner of fastening the ends of the stock rack.

Like numerals of reference indicate corresponding parts in all the figures of the draw-

ings.

1 designates a frame or bed, designed to be mounted upon suitable running gear and having side sills 2, and provided on its upper face with a central series or horizontally disposed keepers 3, and on the outer faces of the sills 40 2 with vertical series of keepers 4, adapted to receive the toes or lower ends of transverse bars 5 of sides 6, whereby the latter may be arranged in an inclined position to form the sides or wings of a hay rack, as illustrated in 45 Fig. 1 of the accompanying drawings, or to be disposed vertically to form the sides of a stock rack as shown in Fig. 3 of the drawings. The sills 2 are provided at their upper edges with recesses 7 to receive the transverse bars 5, 50 when the parts are arranged to form a hay rack, and the lower ends or toes of the transverse bars are slightly beveled to enable them I tions to enable them to fit on the adjacent

to rest upon the bed or frame 1 when they are within the keepers 3.

The ends of the sills 2 are provided with 55 upward extensions 8, which are preferably formed by triangular blocks; and mounted onthe frame at these points are front and rear standards 9 and 10. Each standard is composed of approximately parallel bars suitably 60 connected, and it is provided at its lower end with a cross bar 11, which has its ends journaled between depending angle plates 12 secured to a cross-bar 13. The cross-bar 13 is provided with perforations and is secured 65 upon the upper faces of the adjacent extensions 8 by screws projecting upward from the extensions and passing through perforations of the cross bar 13, and by nuts 14 arranged on the screws 15 and bearing against the up- 70 per face of the cross-bar 13. The depending portions of the angle plates engage detachably keepers or staples 16 extending inward from the inner faces of the side sills 2. Each

standard is adapted to swing on its journal 75 bar, and to enable it to be arranged in a slightly outwardly inclined position the inner edge of the adjacent cross bar 13 is provided with recesses 17. A suitable ridge pole is secured to the standards in the usual manner. 80

When the parts are arranged to form a stock rack the sides 6 have secured to them detachable bars 18, which are provided on their outer faces with keepers 19 to receive the intermediate transverse bars 5, and which 85 are adapted to be removed when the sides are used to form the wings of a hay rack to prevent the parts coming in contact with the wheels of the running gear (not shown.) The upward movement of the detachable bars 18 90 is limited by stops 20 projecting laterally from the transverse bars to space the detachable bar properly; and the ends of the detachable bar are cut away as shown to conform to the configuration of the extensions 8 95 of the sills. The stock rack is completed by ends 21 composed of horizontal bars and vertical bars and provided at their bottoms with hooks 22 to engage openings 23 of plates 24 projecting from the body or frame 1. Each 10c end is provided at its sides with connecting plates 25, which are loosely secured to the end, and which are provided with perforascrews 15. The plates are secured on the screws by the thumb nuts 14 and are attached to the end 21 by staples 26 or the like. The sides are connected at their tops with the ends by hooks 27, arranged on the latter and having their outer ends bent angularly and en-

gaging eyes 28 of the sides.

By the construction described the combined hay and stock rack may be readily converted from one form of rack to the other to enable hay and similar bulky materials, such as grain and straw to be readily carried, and to enable various kinds of stock to be hauled. It will be readily apparent that the parts may be quickly adjusted and are firmly secured, and that a strong, durable, and efficient hay rack, and a similar stock rack are provided.

Changes in the form, proportion and the minor details of construction may be resorted to without departing from the principle or sacrificing any of the advantages of this in-

vention.

What I claim is—

1. In a combined hay and stock rack, the combination of a bed or frame provided at opposite sides with keepers 16, a cross-bar detachably secured to the bed or frame and having depending plates engaging said keepers, said cross-bar being provided intermediate of its ends with recesses, and a standard fitting in the recesses of the cross-bar and having a transverse bottom bar journaled on said plates, substantially as described.

2. In a combined hay and stock rack, the combination of a bed or frame provided at its ends with upward projecting screws and having adjacent to the screws projecting keepers, cross-bars provided with perforations to receive the screws and having depending plates

40 engaging said keepers, standards having bars at their bottoms journaled on the plates, and

nuts securing the cross-bars on the screws, substantially as described.

3. In a combined hay and stock rack, the combination of a bed or frame provided with 45 projecting screws and having adjacent there-to keepers 16, the keepers 4 arranged on the outer sides of the bed or frame, the sides 6 provided with projections forming stops and having detachable bars engaging the stops, 50 the ends having loosely attached to them plates 25 provided with openings receiving said screws, and nuts for securing the plates to the screws, substantially as described.

4. In a combined hay and stock rack, the 55 combination of a bed or frame provided at its ends with projecting screws and having keepers at its sides, the sides 6 having transverse bars engaging the keepers and provided with stops, the detachable bars provided with keepers arranged on the transverse bars of the sides 6 and engaging the stops thereof, and the detachable ends 21, substantially as de-

scribed.

5. In a combined hay and stock rack, the 65 combination of a bed or frame provided at its ends with projecting screws, sides, plates secured to the ends of the body or frame and provided with openings, the ends 21 provided with hooks and engaging the openings of the 70 plates, and the plates 25 loosely attached to the ends and having openings receiving said screws, and nuts arranged on the screws, substantially as described.

In testimony that I claim the foregoing as 75 my own I have hereto affixed my signature in

the presence of two witnesses.

LEWIS SHANABARGER.

Witnesses:
HENRY C. HARRIS,
JOHN M. APP.