

No. 869,303.

PATENTED OCT. 29, 1907.

O. K. HIBBETS.
COMBINED WAGON BOX AND STOCK AND HAY RACK.
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Fig. 1.

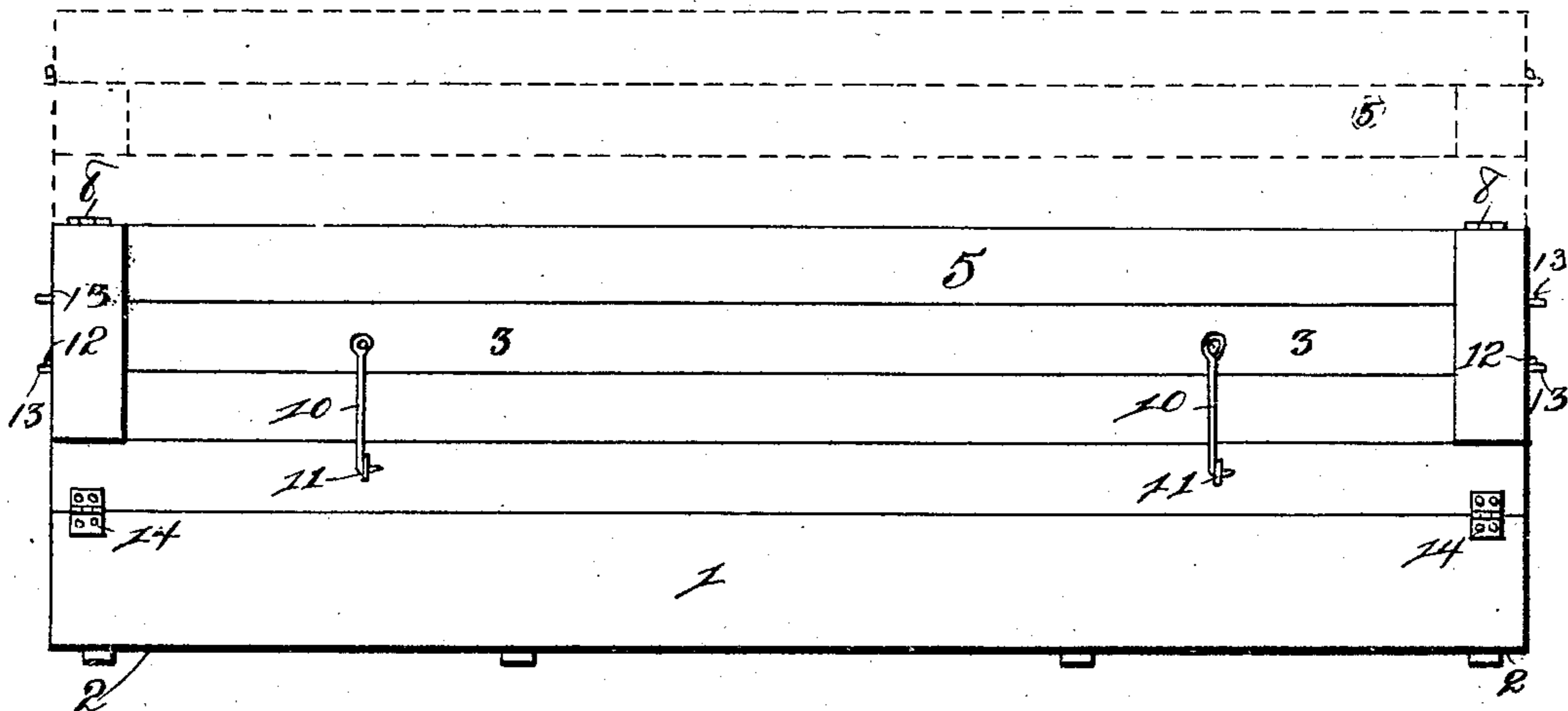
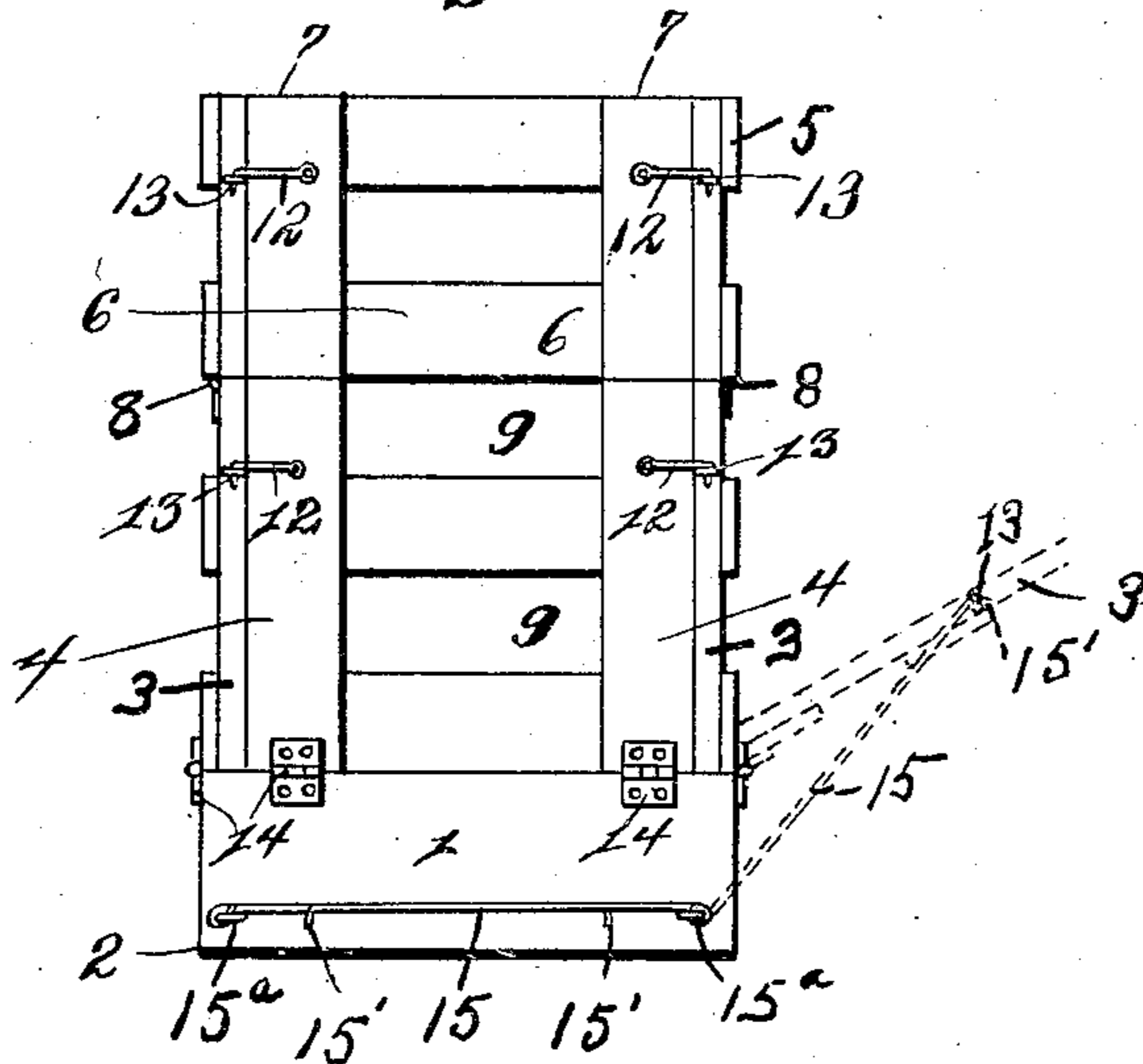


Fig. 2.



Witnesses
R. H. Cibrook
F. L. Milford

Omer H. Hibbets
By. Inventor
Sando Calhoun
Atty.

UNITED STATES PATENT OFFICE.

OMER K. HIBBETS, OF CHARITON, IOWA.

COMBINED WAGON-BOX AND STOCK AND HAY RACK.

No. 869,303.

Specification of Letters Patent.

Patented Oct. 29, 1907.

Application filed March 26, 1906. Serial No. 308,146.

To all whom it may concern:

Be it known that I, OMER K. HIBBETS, a citizen of the United States, residing at Chariton, in the county of Lucas and State of Iowa, have invented a new and useful Improvement in a Combined Wagon-Box and Stock and Hay Rack, of which the following is a specification.

This invention relates to improvements in combined wagon box and stock and hay rack, and has for its object the provision of means whereby a wagon box may be quickly converted into a stock rack or into a hay rack.

Another object of the invention is the improvement of the construction of a wagon box which may be used for conveying material in bulk, as for instance, corn stalks, hay, and the like, or for transporting animals, as for instance, hogs, sheep, and calves.

With these and other objects in view, the invention consists of certain novel constructions, combinations, and arrangements of parts, as will be hereinafter fully described and claimed.

In the drawings: Figure 1 is a view, in side elevation, of a device constructed in accordance with the present invention. Fig. 2 is an end view, in elevation, of the structure depicted in Fig. 1.

Referring to the drawings by numerals, 1 designates the wagon box, provided with a bottom 2. To the wagon box 1 is secured, by hinges 14, primary side pieces 3. Primary end pieces 4 are secured to the ends of the wagon box 1 by hinges 14. Auxiliary side pieces 5 are secured to the primary side pieces 3 by means of hinges 8. Auxiliary end pieces 6 are secured to the primary end pieces 4, by means of hinges, and these end pieces 6 are adapted to fold inwardly.

The end auxiliary pieces 6 comprise horizontal boards secured to vertical uprights 7, and the horizontal boards of the end pieces 6 are adapted to fit between the horizontal boards of the primary end pieces 4, so as to fill the spaces between the boards of the primary end pieces, thereby forming a tight box. It is desirable to form a tight box when loose material is to be transported or conveyed by the wagon box. As the auxiliary end pieces 6 fold inwardly, the load in the wagon box will hold the same in position. However, the auxiliary side pieces 5 fold outward and downward, and, therefore, I provide pivoted catches 10 and hooks or eyes 11, carried by the primary side pieces 3, for holding the auxiliary side pieces 5 in a folded position, when conveying loose material, as clearly shown in Fig. 1.

The primary end pieces 4 are provided upon their outside with pivoted catches 12, the hook ends of which catches engage eye-bolts 13 secured to the ends of the primary side pieces 3, as clearly shown in Fig. 2.

The auxiliary end pieces 6 are also provided with catches 12, which are adapted to engage eye-bolts 13 for securing the auxiliary side and end pieces together, when it is desired to form a stock rack.

Rods 15 are pivotally secured, at 15^a, to the outer faces of the ends of the wagon box, see Fig. 2, and each rod is provided with a hook 15' upon its outer free end. When it is desired to form a hay rack, the catches 12 are detached and the auxiliary side pieces are positioned, as shown in Fig. 1, and then the primary side pieces 3 moved outward and the rods 15 are swung to the position shown by dotted lines, Fig. 2, whereby the hook ends 15' of said rods 15 can engage and interlock with the eye-bolts 13 on the ends of the primary side pieces 3.

It is to be noted that the eye-bolts 13 perform two functions, to wit: they receive the hook ends 15' of the rods 15, when the device is converted into a hay rack, and when the side and end pieces are folded together, these eye-bolts 13 receive the catches 12 for holding the side and end pieces together, when it is desired to form either a tight box or a stock rack.

It is to be noted that the rods 15 are secured to the ends near the sides of the box, whereby comparatively short rods will permit the side-pieces 3 to be positioned at an acute angle, thereby increasing the load-carrying capacity of the rack. It is also essential to pivotally mount the lower ends of the rods at 15^a, near the side-pieces, so that the lower ends of the rods will be positioned out of the way of the end-pieces when they are folded down parallel with the ends of the box, when the device is formed into a hay rack.

When the hay rack is formed, the auxiliary pieces 6 are folded inward parallel with the primary end-pieces 4, and then said end-pieces may be folded down parallel with and secured, by any suitable fastening means, to the ends of the box 1.

What I claim is:

1. In a device of the character described, the combination of a wagon-box, side and end-pieces hinged to said wagon-box, eye-bolts secured to the ends of each side-piece, short catches pivotally secured to the outer face of and near the edges of the hinged end-pieces contiguous to the eye-bolts when said side and end-pieces are folded together, said catches adapted to engage said eye-bolts for securing said side and end-pieces closed together, a pair of rods pivotally secured at their lower ends to the outside of each end of the box near the sides thereof and below the hinges of the end-pieces, each rod provided at its upper end with a hook, and the upper hooked ends of the rods adapted to engage the eye-bolts of the side-pieces for supporting said side-pieces in an inclined position when said catches are disengaged from said eye-bolts.

2. In a device of the character described, the combination with a box provided with hinged side and end-pieces, of eye-bolts secured directly to the ends of the side-pieces, short catches secured to the outer face of each hinged end-piece and adapted to engage said eye-bolts for securing said end and side-pieces closed together, the end-pieces

adapted to fold down parallel with the ends of the box,
rods pivotally secured to the outer face of the ends of the
box near its corners and below the hinges of the end-pieces,
whereby the rods can be folded parallel together below
5 the end-pieces when the side and end-pieces are closed to-
gether, each rod provided with a hook upon its upper end
and the hooked ends of said rods adapted to detachably
engage the eye-bolts and support the side-pieces at an angle
to the box when the end-pieces are folded parallel with

the ends and positioned between the lower ends of the 10
rods.

In testimony whereof I have signed this specification in
the presence of two witnesses.

OMER K. HIBBETS.

Witnesses:

C. W. STUART,
W. B. BEEM.