J. G. & F. H. HIBNER.

STOCK RACK.

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1,043,233.

Patented Nov. 5, 1912.

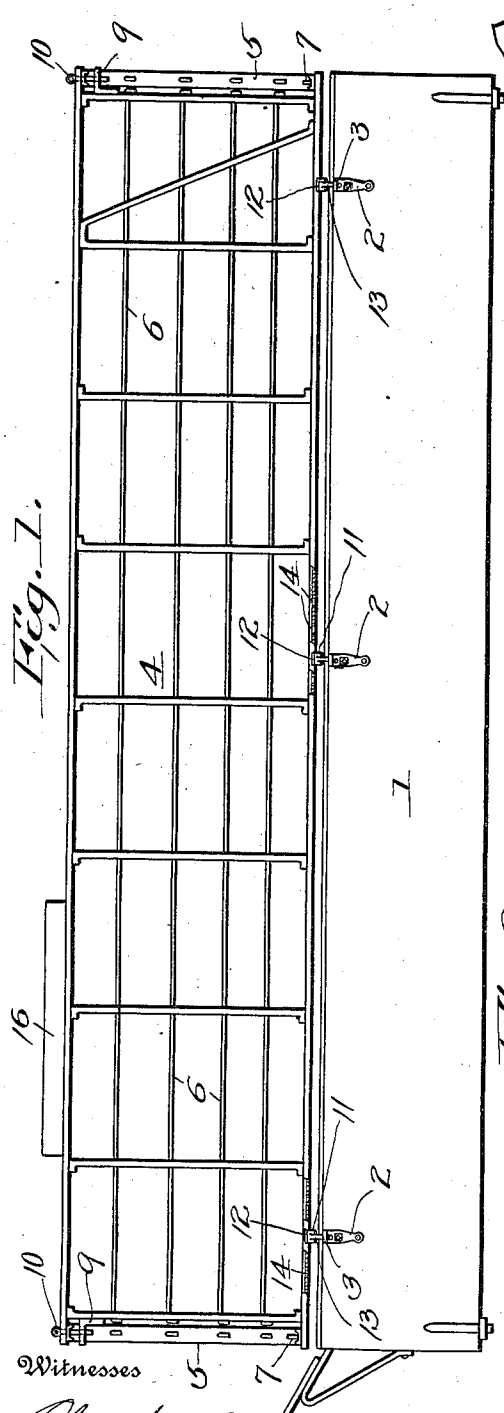

Fig. 1.

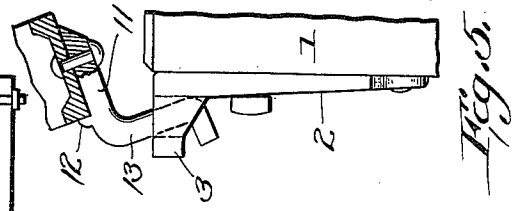

Fig. 5.

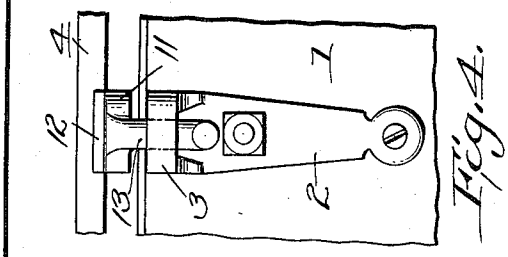

Fig. 4.

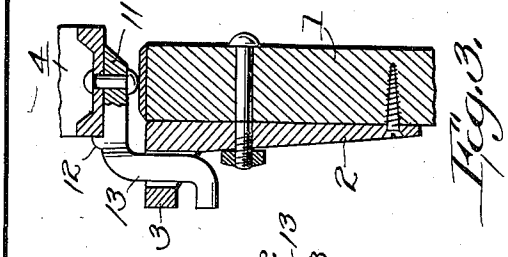

Fig. 3.

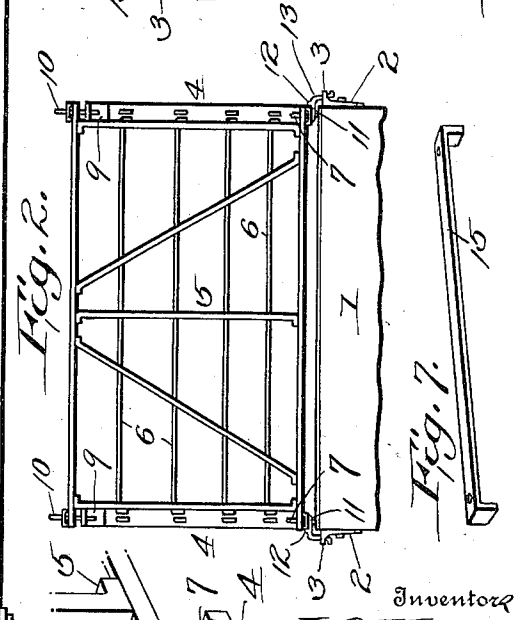

Fig. 2.

Fig. 7.

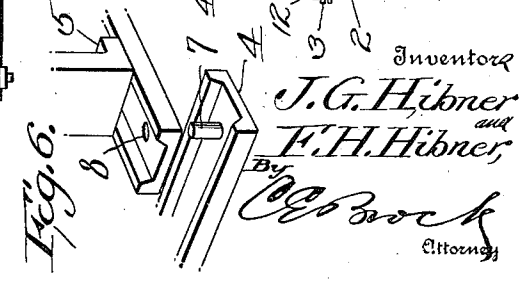

Fig. 6.

Witnesses

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UNITED STATES PATENT OFFICE.

JOHN G. HIBNER AND FREDRICK H. HIBNER, OF IOWA FALLS, IOWA.

STOCK-RACK.

1,043,233. Specification of Letters Patent. Patented Nov. 5, 1912.

Application filed December 14, 1911. Serial No. 665,727.

To all whom it may concern:

Be it known that we, JOHN G. HIBNER and FREDRICK H. HIBNER, citizens of the United States, residing at Iowa Falls, in the county of Hardin and State of Iowa, have invented a new and useful Improvement in Stock-Racks, of which the following is a specification.

This invention relates to a metal rack, adapted to be quickly applied or removed to or from a wagon bed or a suitable box bed arranged upon a wagon, and the object of the invention is to provide a sanitary rack for the transportation of hogs and other small live stock.

With these objects in view, the invention consists in the novel features of construction hereinafter described, pointed out in the claims and shown in the accompanying drawings, in which,

Figure 1 is a side elevation showing the rack in position for use. Fig. 2 is an end elevation. Fig. 3 is an enlarged vertical section through a portion of the wagon bed and illustrating the manner of connecting the rack to the bed. Fig. 4 is a side elevation illustrating the connection parts shown in section in Fig. 3, as seen from the exterior of the rack. Fig. 5 is a detail view partly in section illustrating the manner of locking the side members of the rack to stationary devices carried by the wagon bed. Fig. 6 is a detail perspective view illustrating the manner of connecting the ends of the rack to the side members. Fig. 7 is a perspective view of the rod adapted to connect the side members when an end gate is removed for the purpose of loading or unloading.

In the drawings, 1 represents the side of a wagon bed or box and to said side are secured plates 2, which carry an outwardly projecting vertically perforated lug 3. The rack which seats upon the wagon bed consists of side members 4 and detachable end members 5, the side and end members of the rack are formed of top and bottom members and vertical and inclined braces, all of which are formed of channel steel. Through the vertical and inclined members are passed horizontal rods 6, the ends of which are bent at an angle as shown in Figs. 1 and 2. The end portions of the base of the side members of the rack are provided with fixed upwardly extending pins 7 and the base members of the end pieces are perforated as shown at 8 and fit over the pins 7. The side members are slightly higher than the end members and carry angled perforated brackets 9. When the end members are swung into position the top bar of each end member swings beneath a projecting end portion of each side member and rests between the tops of the side members and the said brackets 9. The end portions of the top members as well as the end portions of the end members are also perforated to aline with the openings in the brackets 9, and pins 10 pass through said openings and securely lock the end members to the side members. Plates 11 are riveted or otherwise secured at suitable intervals to the underside of the base of the side members 4. Said plates are provided with a shoulder 12 against which the outer side of the base bears. These plates carry angle pins 13, which are adapted to enter the openings and interlock with the lugs 3 of the plates 2. In order that the side members may be adjustable forwardly and rearwardly with respect to the wagon body, a plurality of openings 14 are formed therein so that the plates 11 can be shifted from one position to another, thus avoiding disturbing the plates 2. We also provide a transverse bar 15, having angled end portions and when an end member is removed for the purpose of loading or unloading this bar is placed in position, the angled ends fitting in the openings normally occupied by the pins 10 thereby preventing the side members from spreading. Upon each side member and adjacent the front is arranged a block of wood 16, upon which a wagon seat of any kind may be secured.

It will be seen that from the above description, we have provided a rack, the side and end members of which can be readily placed in position and locked to each other and also to the bed of an ordinary wagon or to any suitable box frame, which may be placed upon the running gear of a wagon. The same can also be readily removed, and the end members can be quickly detached without disturbing the side members.

What we claim is:—

1. A rack comprising sides and ends, the ends being detachable from the sides, the top and bottom members of each side of the rack projecting beyond the body portions of said sides, and the top and bottom members of the ends projecting, the projecting por-

tions of the ends resting respectively upon and beneath the projecting portions of the bottom and top members of the sides, brackets secured upon the ends of the sides and adjacent the top members, and pins passing through the top members of the sides, the top members of the ends, and the said brackets.

2. The combination with the sides of a rack having projecting top and bottom members, of an end gate also provided with projecting top and bottom members, pins carried by the projecting bottom members of the sides, the projecting bottom member of the end being perforated to fit over said pins, brackets carried by the sides and beneath and adjacent the projecting portions of the top members, the projecting top member of the end fitting between said brackets and the top members of the sides, and retaining pins passing through all of said top members and through said brackets, as and for the purpose set forth.

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