

C. A. De WOLF.  
WAGON-BODY.

No. 170.159.

Patented Nov. 23, 1875.

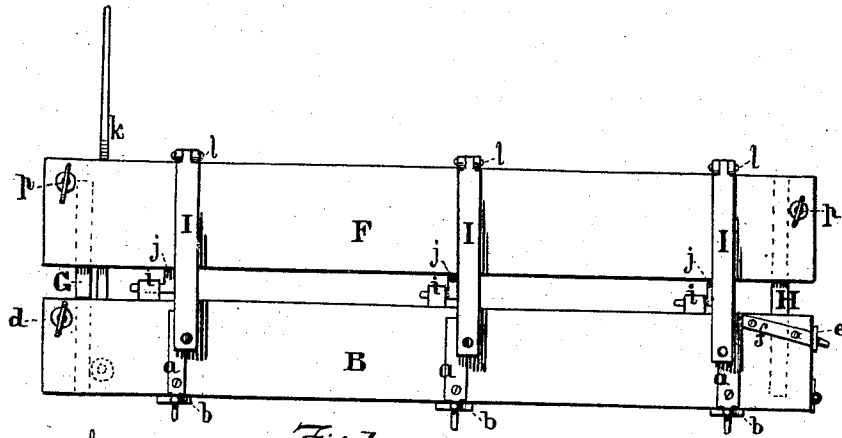


Fig. 1.

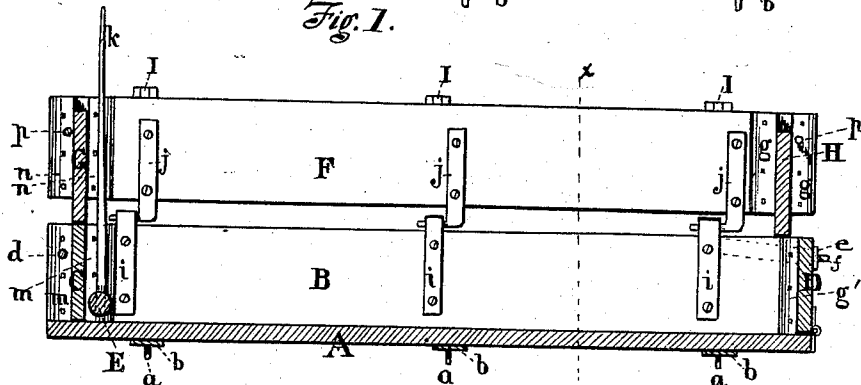


Fig. 2.

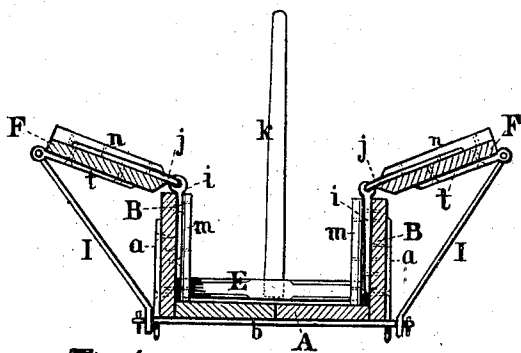


Fig. 4. Vert. Sec. Thru Centre (line 22) fig 2  
Arranged here as a Hay-Rack

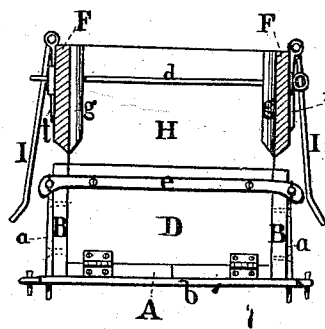


Fig. 3.  
End view of  
figs 1 & 2

Witnesses  
John M. Johnson  
W. O. Jones

Charles A. De Wolf  
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# UNITED STATES PATENT OFFICE.

CHARLES A. DEWOLF, OF WYOMING, ILLINOIS.

## IMPROVEMENT IN WAGON-BODIES.

Specification forming part of Letters Patent No. **170,159**, dated November 23, 1875; application filed October 27, 1875.

*To all whom it may concern:*

Be it known that I, CHARLES A. DEWOLF, of Wyoming, in the county of Stark and State of Illinois, have invented a convertible Wagon-Box, Hay-Rack, and Hog-Rack; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the annexed drawings, making a part of this specification, in which like letters of reference refer to like parts, and in which—

Figure 1 represents a longitudinal elevation of the invention as a hog-rack, erect upon a wagon-box; Fig. 2, a vertical longitudinal section of same; Fig. 3, an end view of same; Fig. 4, a vertical section, (cross,) with the boards F F inclined outward as a hay-rack.

This invention consists of a box or wagon-body, with upper boards so hinged to the body as will, when confined in an upright position, form a hog-rack or carrier for hogs; and, when said boards are inclined outward upon side braces, form a hay-rack; and, when the top boards are removed by slipping them from their hinges, convert the lower part into a wagon-box.

One of the forms in which I construct this invention is as follows: In the drawings, A represents the bottom of the box provided with the usual sides B B, made separable, as hereafter described, and end pieces C D, with retaining-cleats *m m g'*, for said ends, and brace-rod *d* at the forward end. The tail-board D is hinged to the bottom A, and is furnished with a bar, *e*, provided with eyes at either end, in the usual manner, to pass onto the side pins *f f*. Beneath the bed A are cross-supports *b b b*, into the eyes of which the vertical ends of the cleats *a a a* pass, which are there secured by pins or similar detents. The said supports *b b b* each terminate, beyond said vertical cleats *a*, in a slotted point in a common form, to receive the eyes of one of the pendent braces I I I on either side of the box. Across the front end of the box is the roller E, from which rises the binding-pole *k*, for securing the hay, which may be taken out when the whole is used as a hog-rack. On the inside of each side board of the box is fastened the vertical cleats *i i i*, each ending, at the upper edge of the box, in eyes to receive the respective pins or ends of the cleats *j j j* of the upper boards F F, or upper

extensions of said box, which are each hinged to the latter, as above described, in such a manner as to facilitate the removal of said boards F F, to convert the same into a simple wagon-box. Said boards are also provided with end cleats *g g n n*, to receive the respective end pieces G H, to close the rack, and are held upright by the usual brace-rods *p p*. The parts, as a whole, now form the hog-rack. (See Figs. 1 2 3.) Upon the outside of each of the boards F F are arranged at equal intervals, and opposite to the bed-supports *b b b*, vertical cleats *t t t*, ending, each, at the upper edge of said boards F F, in a hinged connection with the respective braces I I I, which latter, when said boards are inclined outward to form a hay-rack, support the same above the wagon-wheels by the passage of the eyes in each of their lower ends onto the respective points of the supports *b b b* projecting from the bottom of the box A B, where they are secured by pins, which pass within slots or holes in the ends of said supports. I also make the side braces I I I in other forms, and of wood.

The operation of this convertible hay and hog rack and wagon-box is as follows: The box A B C D is made in separate pieces, for the convenience of packing away when not used as a wagon-box, or when the same is made of greater length than will serve for an ordinary wagon-box, the side pieces B B lifting off and out of the cross-pieces *b b b*.

When it is desired to use this invention as a hog-rack (see Figs. 1, 2, 3) the upper boards F F are attached, by means of their respective cleats *j j j*, to their corresponding cleats *i i i* on the sides B B, and are kept vertical by means of the rods *p p* at either end, the end pieces G H being each retained within their respective cleats *g g n n*, the whole making a secure, cheap box or rack for carrying hogs.

The hog-rack, Figs. 1 and 2, is convertible into a hay-rack by removing the rods *p p*, and the end pieces G H, and inclining the boards F F outward over the wheels, so that the ends of the pendent braces I I I are secured to their respective pin and socket points of the bolsters or cross-supports *b b b*. The end boards C D may be removed, and the binding-pole *k* be used in the ordinary manner to serve in securing the hay.

What I claim as my invention is—

1. The box A B C D, provided with cleats *ii i*, &c., and with eyes or sockets for the reception of the pins of the cleats *j j j*, &c., of the upper boards F F, and cross-supports or bolsters *b b b*, provided with tongues and sockets at their outer ends for the reception of the braces I I I, substantially as and for the purposes described.

2. The combination, with the box A B C D, by means of the hinged cleats *j j j i i i*, of the removable adjustable upper boards F F, provided with cleats *g g n n*, end boards G H, and brace-rods *p p*, and exterior hinged braces I I I, constructed, arranged, and operating substantially as and for the purposes described.

3. The combination, with the bolsters *b b b*, formed with socketed ends, of the hinged braces I I I, in the manner and for the purposes described.

4. The combination and arrangement of the bottom A, provided with supports *b b b*, side boards B B, provided with side posts *a a a*, adjustable in the respective sockets of said supports *b*, and with cleats *m m g*, end boards C D, brace-rods *d e*, and socketed cleats *i i i* hinged to the cleats *j j j* of the removable side boards F F, the boards F F, end boards G H, brace-rods *p p*, and adjustable outside braces I I I, operating substantially as and for the purposes described.

In testimony that I claim the foregoing convertible wagon-box, hay and hog rack I have hereunto set my hand this 11th day of October, A. D. 1875.

CHARLES A. DEWOLF.

Witnesses:

J. E. DECKER,  
W. H. BOYER.