

(No Model.)

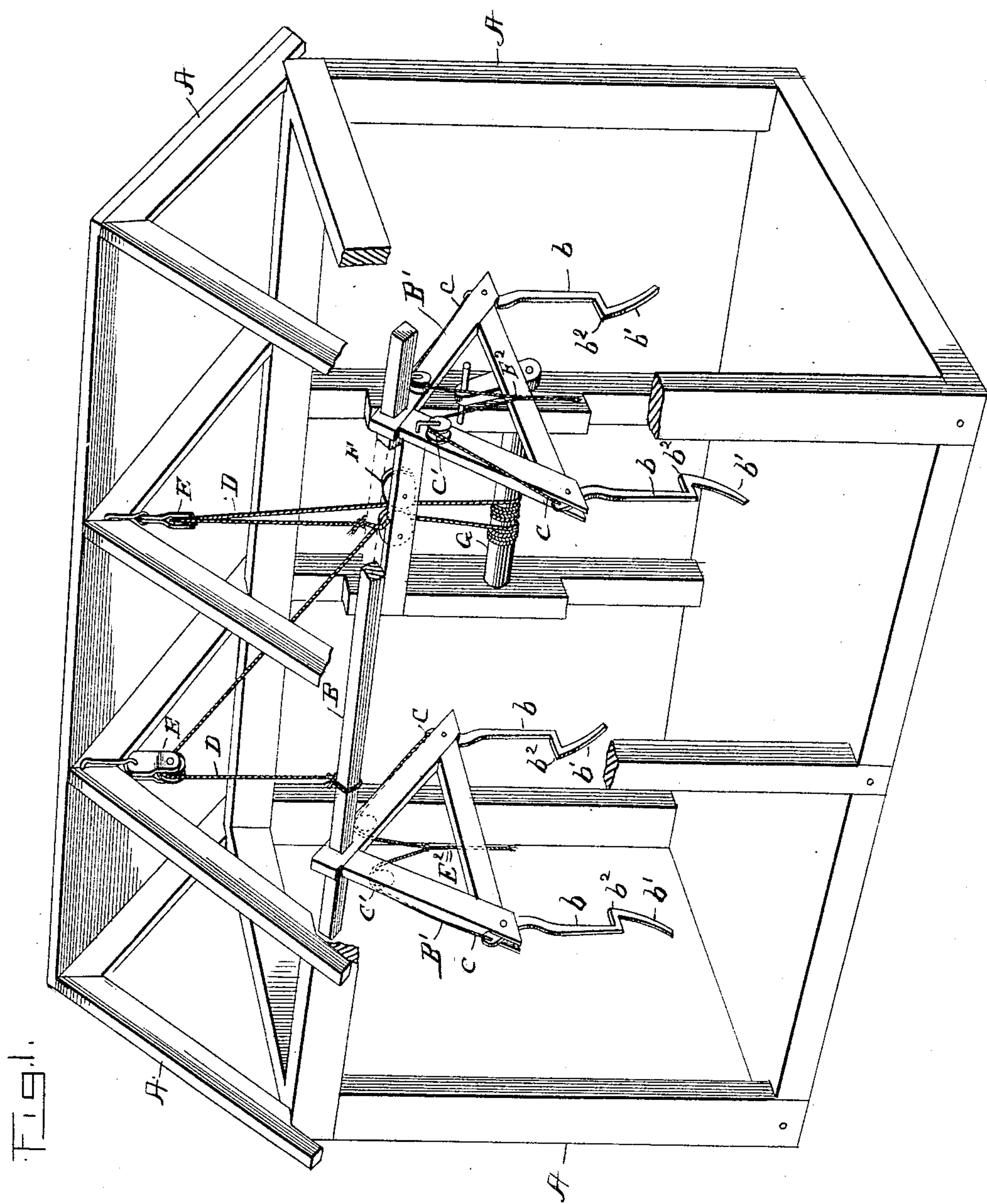
2 Sheets—Sheet 1.

G. W. HODGE & L. J. A. ROSWALL.

DEVICE FOR REMOVING WAGON BODIES.

No. 328,403.

Patented Oct. 13, 1885.



WITNESSES:

Thomas A. Clark

H. M. Kenny

INVENTOR:

George W. Hodge  
L. J. A. Roswall  
J. H. Snow & Co.  
attorneys

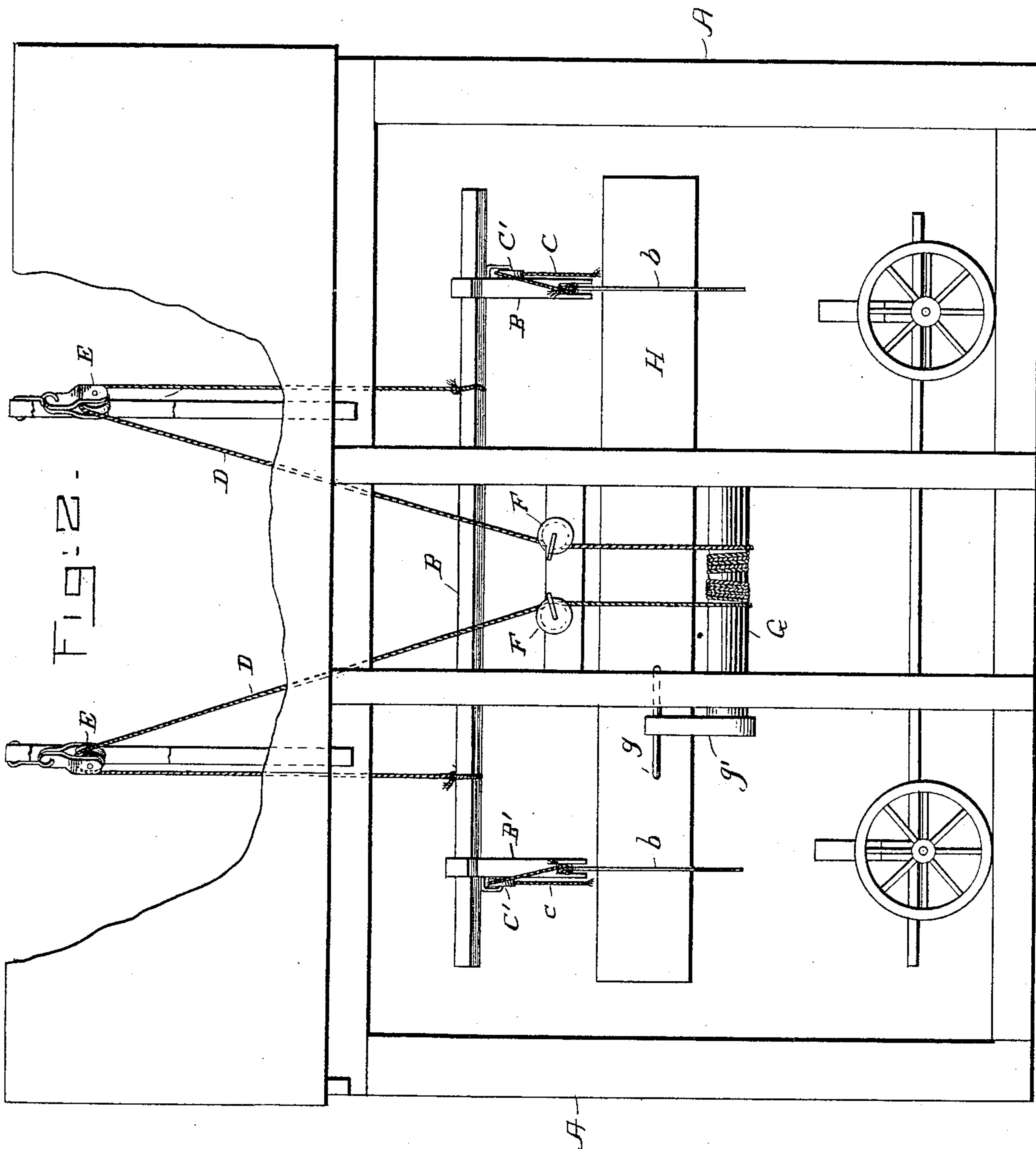
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George W. Hodge  
L. J. A. Roswall  
by H. S. Snow & Co.  
Attys



# UNITED STATES PATENT OFFICE.

GEORGE W. HODGE AND LARES J. A. ROSWALL, OF CLARENCE, MISSOURI.

## DEVICE FOR REMOVING WAGON-BODIES.

SPECIFICATION forming part of Letters Patent No. 328,403, dated October 13, 1885.

Application filed August 6, 1885. Serial No. 173,741. (No model.)

*To all whom it may concern:*

Be it known that we, GEORGE W. HODGE, and LARES J. A. ROSWALL, citizens of the United States, residing at Clarence, in the county of Shelby and State of Missouri, have invented certain new and useful Improvements in Devices for Removing Wagon-Bodies, of which the following is a specification, reference being had therein to the accompanying drawings.

Our invention relates to devices for raising and holding wagon-beds or like objects, and has for its object the provision of a simple and efficient device by the aid of which the bed or other object will be automatically grasped with a positive hold, and by the operation of suitable hoisting apparatus will be elevated to the desired height.

The invention consists in the construction and combination of parts hereinafter described, and pointed out in the claims.

The accompanying drawings illustrate what we consider the best means for carrying the invention into practice.

Figure 1 is a perspective view of the frame of a building, showing our invention applied. Fig. 2 is a side elevation of the same.

Similar letters of reference indicate corresponding parts in both the figures.

A represents the frame of the building in which the device is suspended and operated.

B is a bar, on which are suspended or placed the triangular frames B' B', to which the grapnels or hooks *b b* are pivoted, as shown. These grapnels or hooks *b b* are formed with curved or inclined ends *b'*, terminating in horizontal shelves or knees *b<sup>2</sup>*, from the rear of which the grapnels extend upward in a practically vertical direction. The ends of the grapnels above the pivots are fitted with cords, ropes, or chains *c*, which pass over pulleys *c'* and terminate in a single piece or body *c<sup>2</sup>*.

The timber or bar B is suspended upon ropes or chains D, which pass over the pulleys E at the comb of the roof or rafters, and thence pass over the pulleys F and around the windlass G, fixed in the side of the building.

H in Fig. 2 represents a wagon-bed. The

handle *g* of windlass G is movable in the crank *g'*, and can be pushed through to rest behind a pillar and form a lock for the windlass, as shown in the drawings.

The operation of the device is as follows: When the wagon is driven under the building, the bar B, with its appended parts, is let down by unwinding the windlass, and the curved ends *b'* of the grapnels *b* guide said grapnels over the sides of the bed and bring the knees or horizontal portions *b<sup>2</sup>* under the lower edge of the bed on each side. If they should not take hold, for any reason, they may be pressed under by hand until the weight of the bed comes upon them. When properly under the bed, the windlass is wound up, and the bed is elevated to any desired height, and held by locking the handle of the windlass in the manner already described.

When it is desired to lower the wagon-bed, the windlass is released and let down carefully. The rod B and connected parts being swung on flexible connections permit the bed to be seated very exactly.

When the bed is in place, the grapnels are released by drawing upon the cords *c<sup>2</sup>*, which will throw the knees *b<sup>2</sup>* out from under the sides of the bed, when the bar B and its attachments may be drawn up out of the way.

It is apparent that the bed or body will be swung up out of the reach of stock and entirely out of the weather. It is also apparent that by having the grapnels removable and setting them farther in or out the device may be adapted for wide or narrow bodies.

Having thus described our invention, what we desire to claim and secure by Letters Patent is—

1. In a device for elevating wagon-bodies, the combination, with the hoisting device, of the grapnels or hooks described, having the lower curved ends for being guided over the sides of the wagon-body and the knees or shelves described for engaging the under edges of the body, as set forth.

2. The combination, with the frames B', of the grapnels *b*, having the knees or shelves *b<sup>2</sup>*, and the cord or rope *c' c<sup>2</sup>*, and pulley, constructed and arranged to spread the grapnels and release them from the bed, as set forth.

3. The combination of the bar B, the triangular frames B', having the self-adjusting grapnels *b*, the pulleys E, chains or ropes D, and windlass G, as and for the purpose set forth.

- 5 4. The combination of the bar B and triangular frames B', secured thereon, and the self-adjusting grapnels *b*, pivoted to said frames, as and for the purpose set forth.

In testimony whereof we affix our signatures in presence of two witnesses.

GEORGE W. HODGE.  
LARES J. A. ROSWALL.

Witnesses:

FINUS M. WILLIS,  
L. D. HODGE.