

No. 699,403.

Patented May 6, 1902.

W. MARIN.
VEHICLE BODY RAISER.

(Application filed July 30, 1901.)

(No Model.)

2 Sheets—Sheet 1.

Fig. 1.

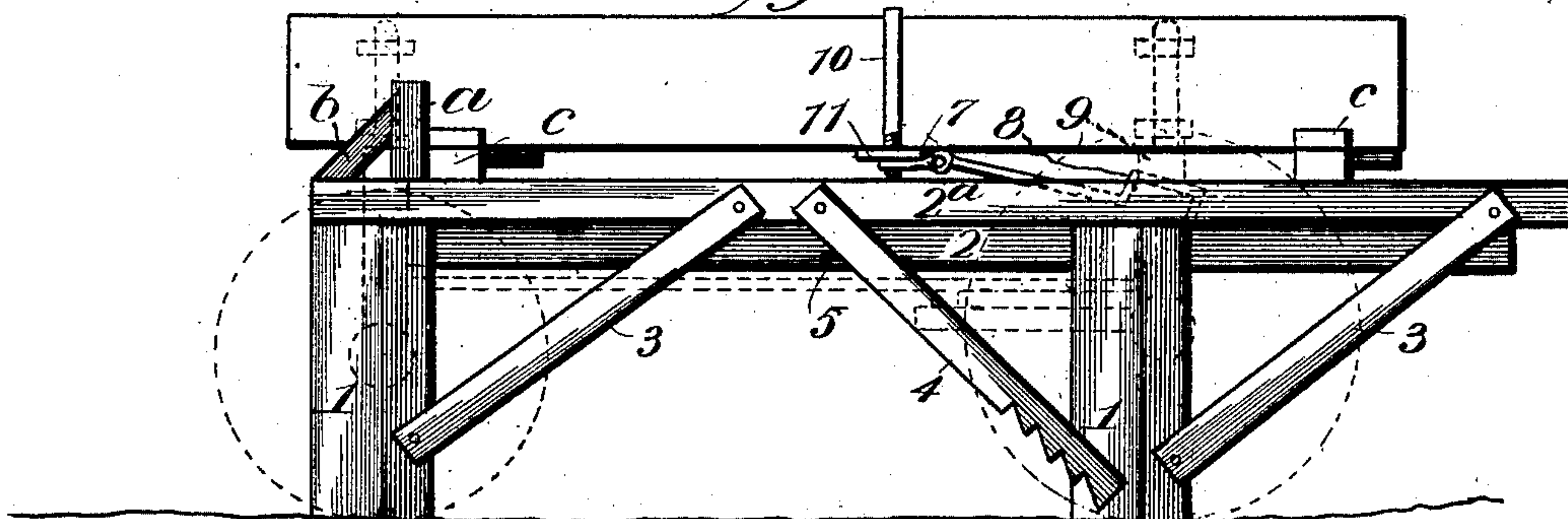


Fig. 2.

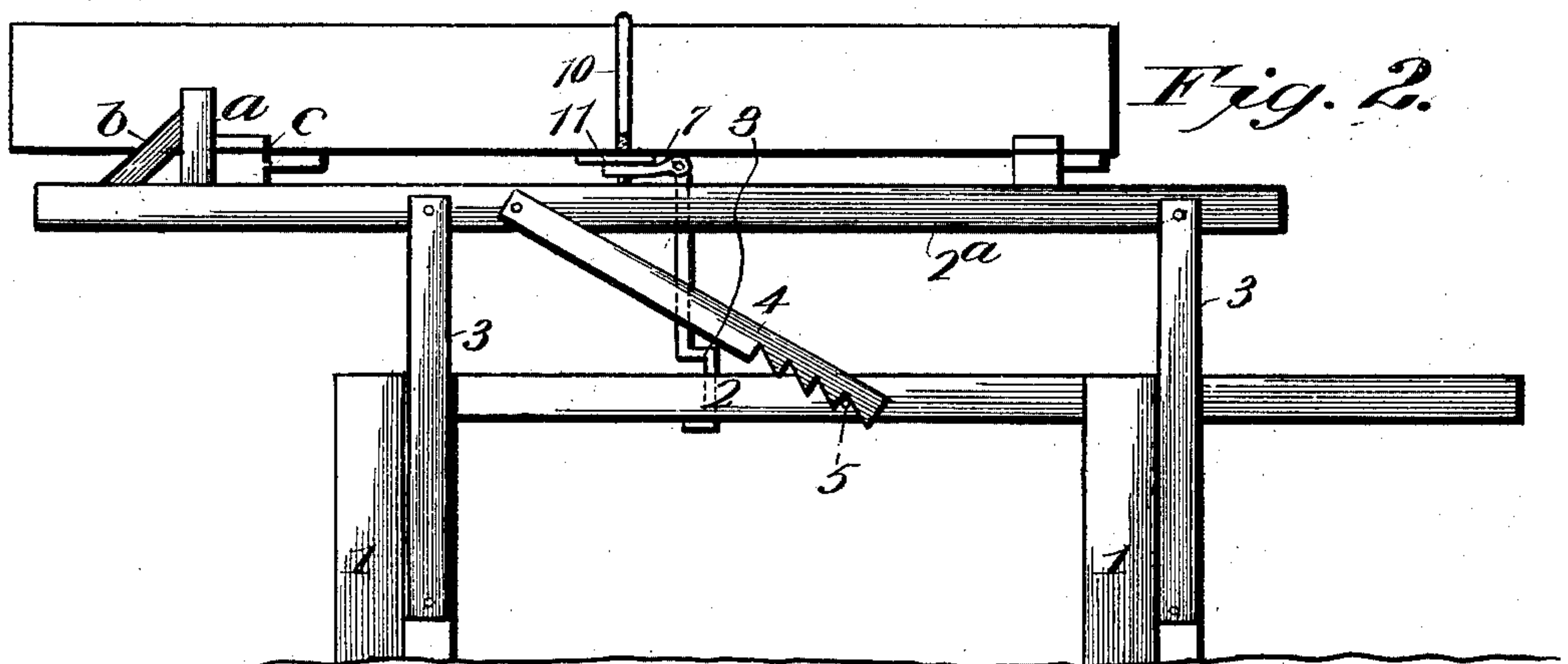


Fig. 3.

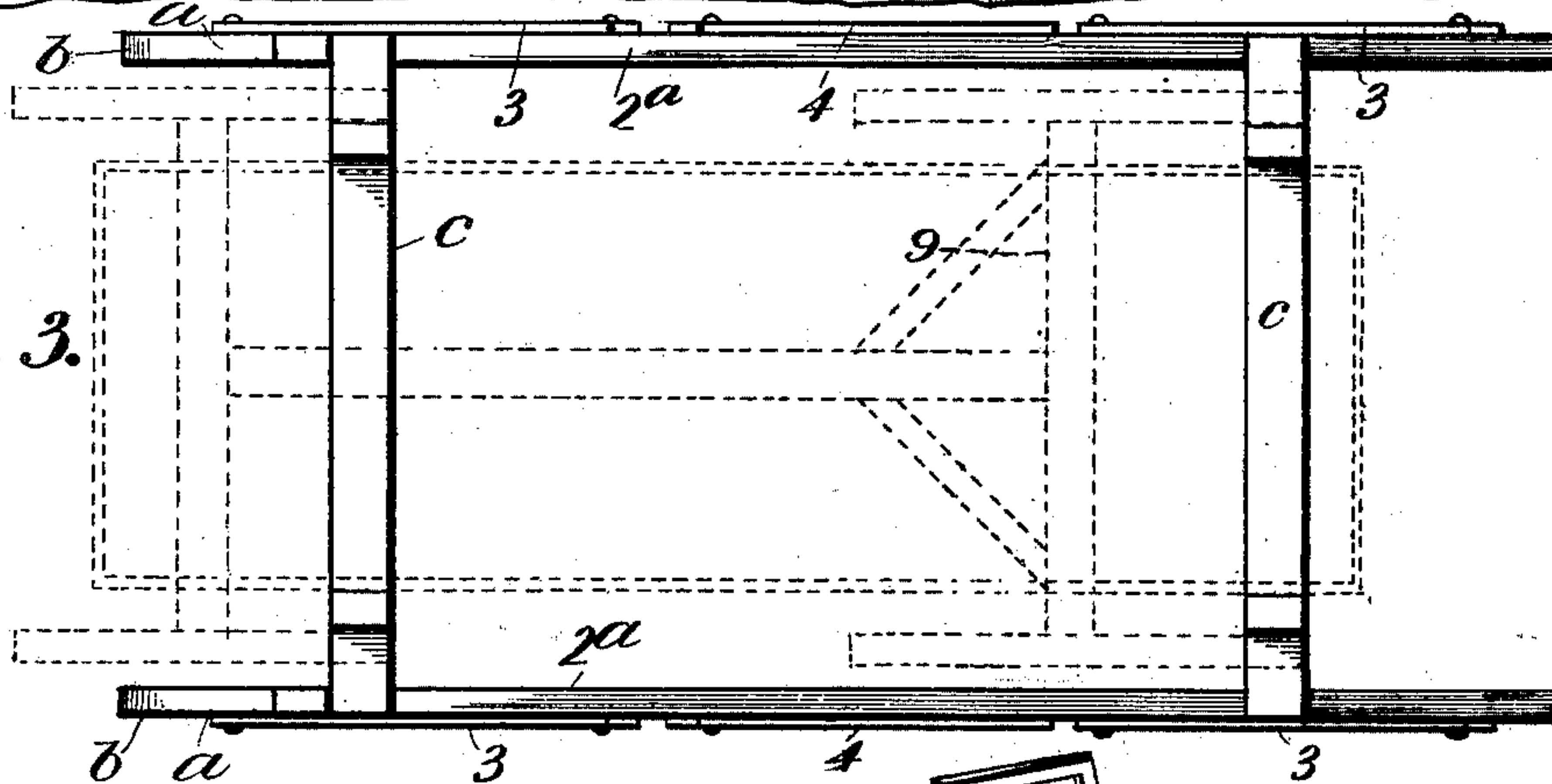
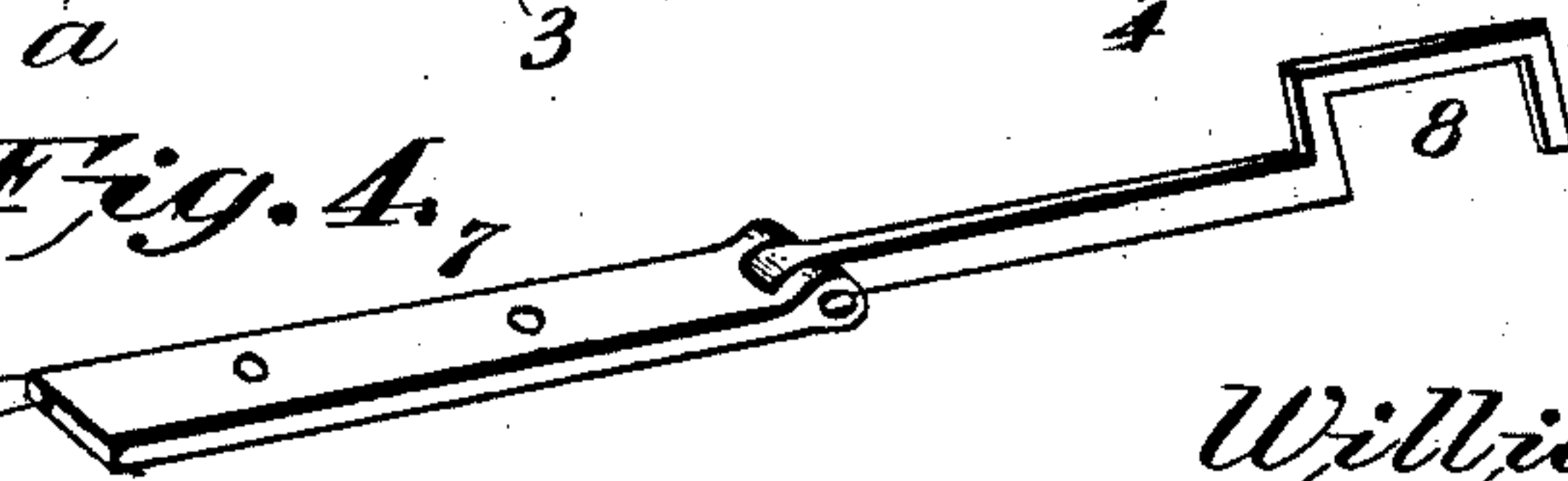


Fig. 4.



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Fig. 5.

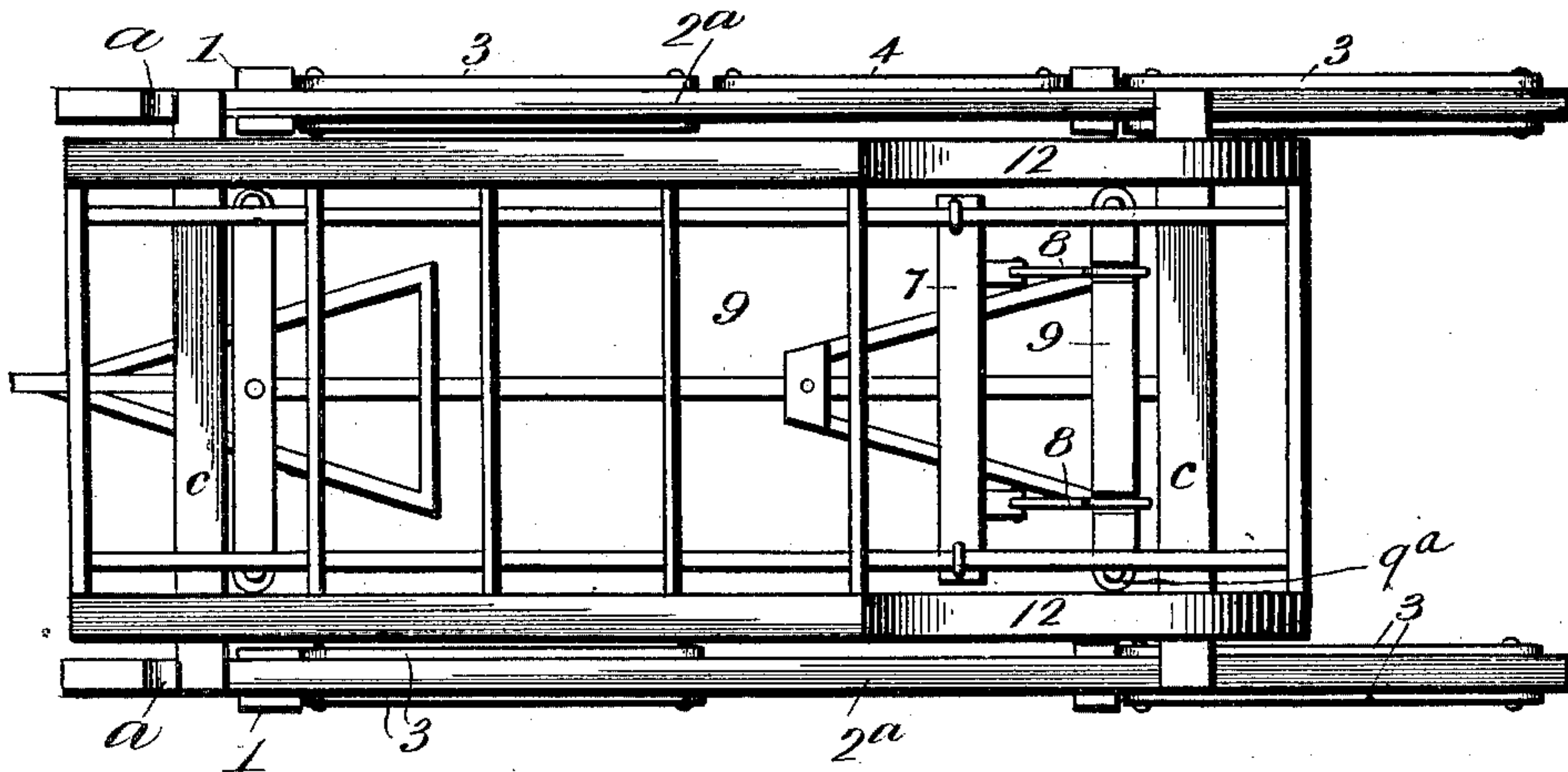


Fig. 6.

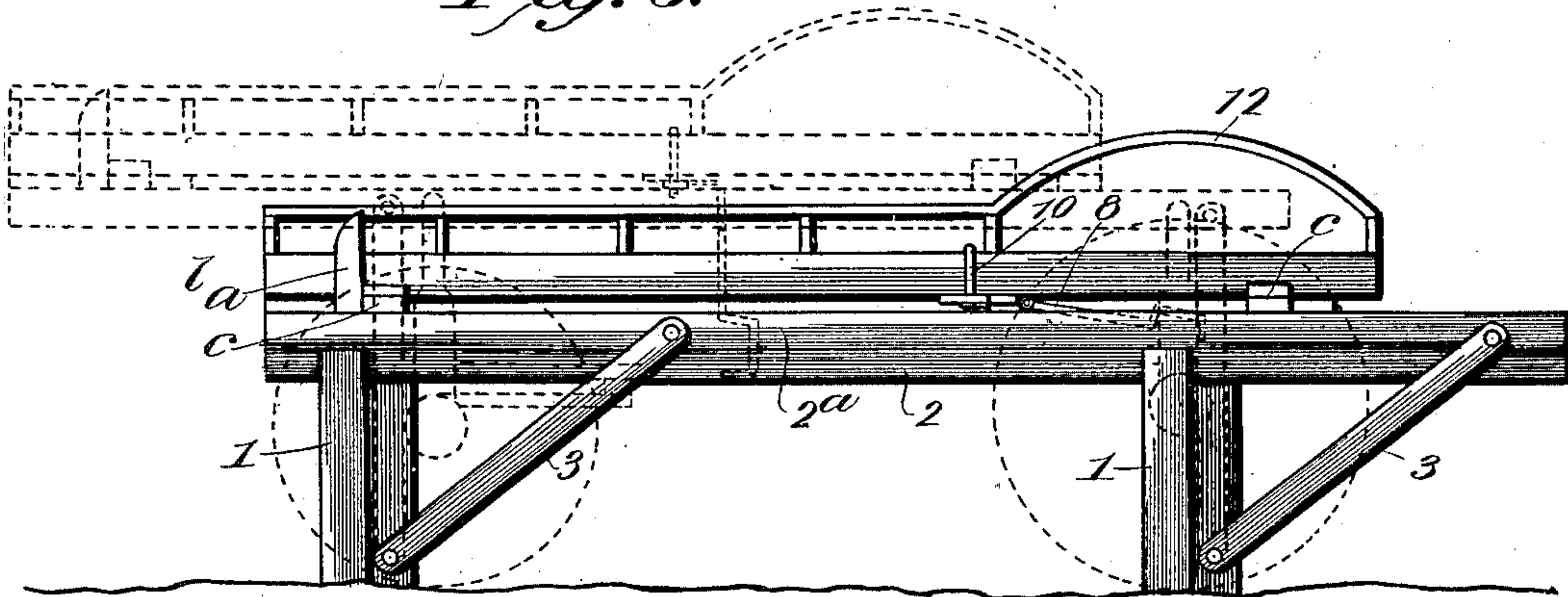
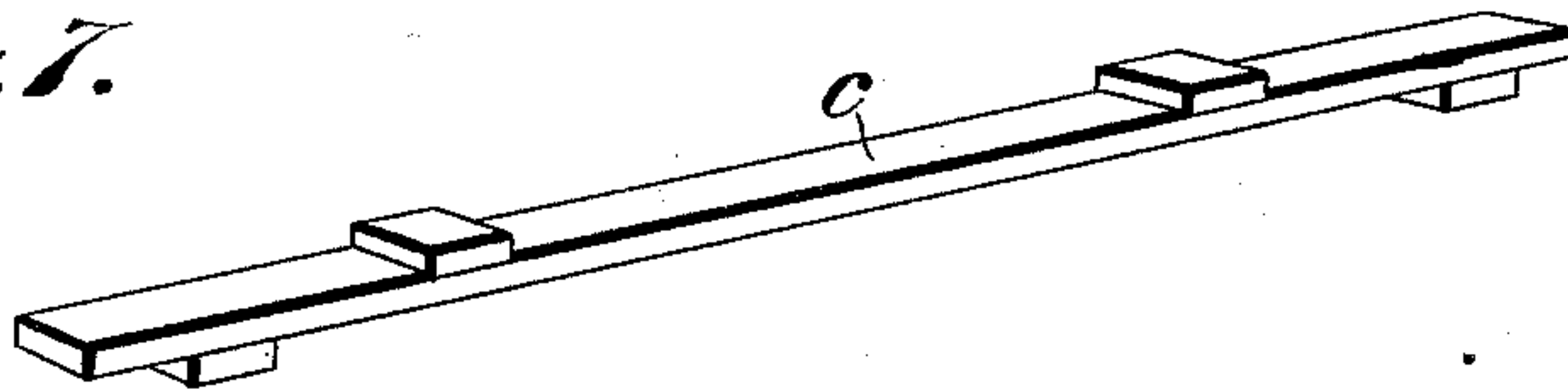


Fig. 7.



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UNITED STATES PATENT OFFICE.

WILLIAM MARIN, OF REED CITY, MICHIGAN.

VEHICLE-BODY RAISER.

SPECIFICATION forming part of Letters Patent No. 699,403, dated May 6, 1902.

Application filed July 30, 1901. Serial No. 70,200. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM MARIN, a citizen of the United States of America, residing at Reed City, in the county of Osceola and State of Michigan, have invented certain new and useful Improvements in Vehicle-Body Raisers, of which the following is a specification.

This invention relates to hoisting machinery, and particularly to that class designed for raising and replacing wagon-bodies or hay-frames.

The object of the invention is to produce a combination in which the forward movement of the vehicle will serve to operate the hoisting mechanism.

Furthermore, the object of the invention is to provide an engaging device which is secured to the bottom of the body in order that its engagement with the lifting-frame may serve to elevate said frame and the body.

Furthermore, the object of the invention is to provide a vehicle-body and in combination therewith the means for elevating the body and means permanently carried by the body for actuating the lifting means.

Finally, the object of the invention is to produce a wagon-body raiser which will possess advantages in points of simplicity, durability, and inexpensive construction and proving at the same time satisfactory in use.

With the above and other objects in view the invention consists in the details of construction and in the arrangement and combination of parts to be hereinafter more fully set forth and claimed.

In describing the invention in detail reference will be had to the accompanying drawings, forming a part of this specification, wherein like characters denote corresponding parts in the several views, and in which—

Figure 1 is a view in elevation of the body-raiser with a body applied thereto just prior to the time the same is elevated. Fig. 2 is a side elevation of the raiser, showing the body held clear of the running-gear. Fig. 3 is a plan view of the raiser. Fig. 4 is a perspective view of the body attachment for engaging the raiser and swinging the same to the position shown in Fig. 2. Fig. 5 is a plan view of the invention applied to a hay-rack.

Fig. 6 is a side elevation thereof. Fig. 7 is a perspective view of one of the supporting-strips.

In the drawings, 1 1 are upright supports connected by the beam 2.

The movable beam 2^a, which forms the support for the wagon or vehicle bed, is elevated through the agency of the links 3, which are pivoted thereto and to the upright 1, the said links standing vertically when the body is raised clear of the running-gear and assuming an inclined position when the beam is resting on the supports, as shown fully in Fig. 1. A notched bar 4 is pivoted to the beam and engages a pin 5 in the horizontally-disposed portion of the frame.

Each vehicle-body is provided with engaging members comprising plates 7, to which are pivoted the shanks of the hooks 8, there being two hooks attached to the bottom of each body. The hooks are designed to engage the recessed bars 9, which are secured to the rear bolster 9^a, in order that the movement of the vehicle as it is pulled forward may be communicated to the body to carry said body forward until elevated clear of the standards and running-gear. The plates 7 are secured to the body by hangers 10, supporting the base-plate 11.

The buffer *a* is attached to the movable beams 2^a in a vertical position and is supported by the brace *b*. Supporting-strips *c* extend transversely from one movable beam to the other, being loose therein, and the vehicle-body rests on the strips, and as said wagon is moved forward the front support *c* comes in contact with the buffer and aids the hooks in pulling the movable beams forward while they are being elevated by the links.

A second beam *c* is provided for supporting the rear of the body.

The invention may be utilized with equally favorable results in connection with a hay-rack 12 or other body attachment by applying the plate 11 transversely of the rack by the hangers 10 and having the hook-plates attached thereto.

It is noted that various changes in the proportions and details of construction may be resorted to for successfully carrying the invention into practice.

Having thus fully described the invention, what I claim as new, and desire to secure by Letters Patent, is—

5 In a wagon-body lifter a suitable supporting-frame, movable beams, links connecting the movable beams to the supporting-frame buffers projecting from the beams, supporting-strips extending from one beam to the other, the ends of one of said strips engaging
10 the buffers, hooks carried by a wagon-body and embracing the tops of a wagon-bolster

whereby the movement of the running-gear in either direction is communicated to the body.

In testimony whereof I affix my signature, 15
in the presence of two witnesses, this 25th day of July, 1901.

WILLIAM MARIN.

Witnesses:

GEORGE H. MARIN,
J. E. RICHARDSON.