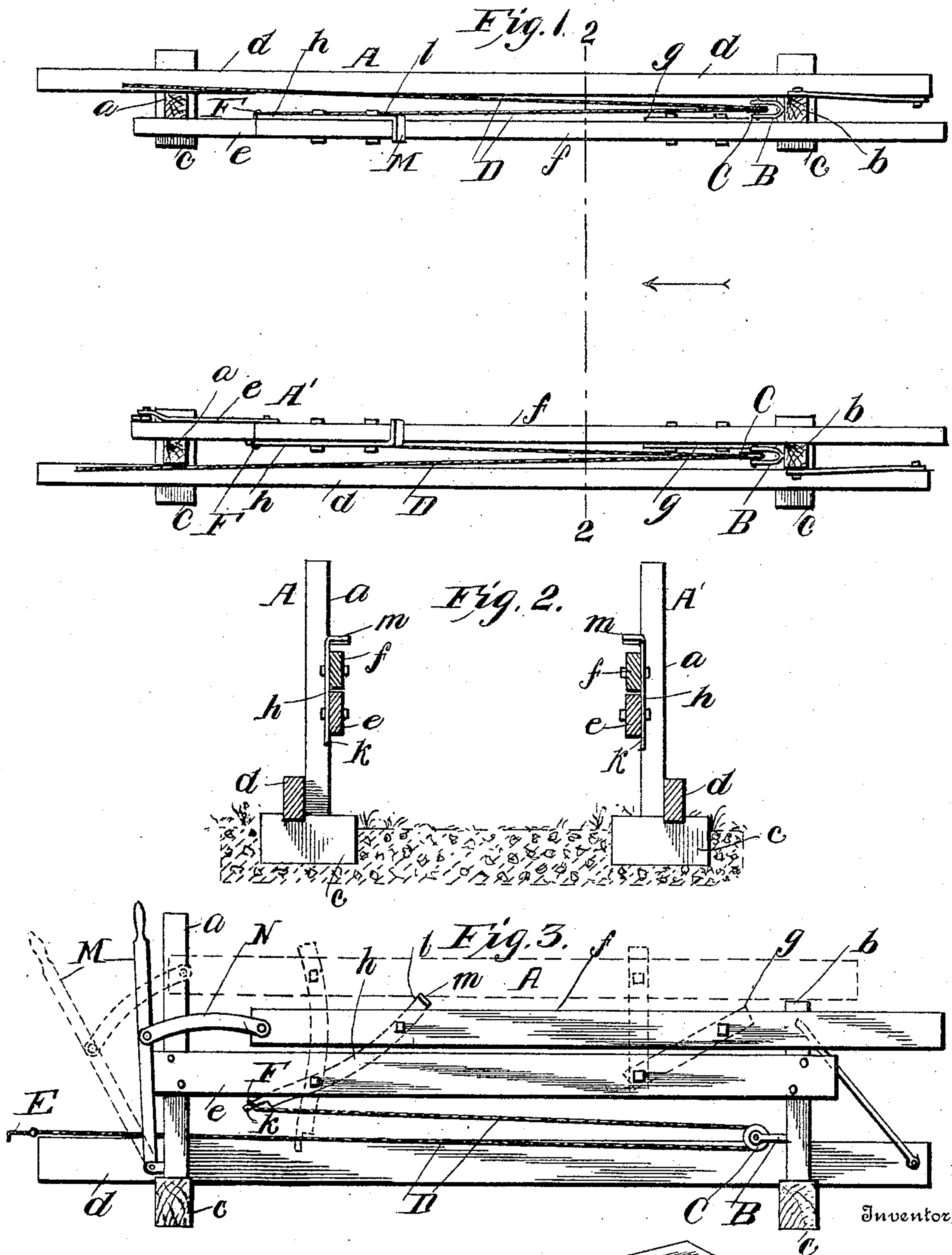


No. 855,990.

PATENTED JUNE 4, 1907.

L. R. SHELDEN.  
LIFTING APPARATUS.  
APPLICATION FILED MAR. 6, 1907.



Witnesses  
L. Wilson.  
J. J. Shelden Jr.

Fig. 4.  
P R  
By R

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# UNITED STATES PATENT OFFICE.

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## LIFTING APPARATUS.

No. 855,990.

Specification of Letters Patent.

Patented June 4, 1907.

Application filed March 6, 1907. Serial No. 360,994.

*To all whom it may concern:*

Be it known that I, LEVI R. SHELDEN, a citizen of the United States, residing at Cestos, in the county of Dewey and Territory of Oklahoma, have invented new and useful Improvements in Lifting Apparatus, of which the following is a specification.

My invention pertains to lifting apparatus; and it has for its object to provide a simple and inexpensive apparatus through the medium of which hay racks, header barges and box bodies may be lifted from the running gears of wagons by the efforts of the teams hitched to the wagons.

The invention will be fully understood from the following description and claims when the same are read in connection with the accompanying drawings, forming part of this invention, in which:

Figure 1 is a plan view of my novel apparatus. Fig. 2 is a vertical cross-section taken in the plane indicated by the line 2—2 of Fig. 1. Fig. 3 is an elevation of the inner side of the right-hand side section of the apparatus. Fig. 4 is a view of one of the bars which are employed when the apparatus is to be used to lift a box body from the running gear of a wagon.

Referring by letter to the said drawings, and more particularly to Figs. 1 to 3 thereof: A A' are the side sections of the apparatus. The said side sections are arranged sufficiently far apart to permit a wagon to pass between them, and respectively comprise fore and aft posts *a* and *b* which are fixed in the ground or else are fixed to sills *c* arranged in the ground as illustrated, a longitudinal bar *d* arranged at the outer sides of and fixed to said posts, an upper longitudinal bar *e* arranged at the inner sides of and fixed to the posts, an endwise and vertically movable bar *f* arranged above and in the same vertical plane as the bar *e*, a vertically-swinging link *g* pivoted to the bars *e* and *f* and arranged, by preference, at the outer sides thereof, and a vertically-swinging lever *h* arranged at the outer sides of the bars *e* and *f* and having an arm *k* extending below the bar *e* and an arm *l* extending above the bar *f* and terminating in an inwardly-extending angular portion *m*.

Each side section is provided on its rear post with a clevis B in which is mounted a sheave C, and around the said sheaves are passed cables D. These cables D are provided at one end with hooks E and at their

opposite ends with eyes F the offices of which will be presently explained.

In the practical use of my novel apparatus, the bars *f* of both side sections A and A' are positioned as shown in Fig. 3, and the wagon from which a hay rack or a header barge is to be lifted is drawn, in the direction indicated by arrow in Fig. 1, by a team between the side sections A and A' until the front of the rack or barge strikes the inturned angular portions *m* at the upper ends of the levers *h*. The team is then stopped, and the eyes F on the cables D are placed on the lower ends of the levers *h*, while the hooks E are connected with a suitable part of the wagon, preferably the hound thereof in order to avoid subjecting weaker parts of the wagon to strain. The team is then started, when, as will be readily observed, the team, through the medium of the wagon, the cables D and the levers *h*, will raise the bars *f* under the rack or barge, and through the medium of said bars *f*, will lift the rack or barge clear of the running gear of the wagon. When the rack or barge is thus lifted, the levers *h* assume upright positions and the eyes F drop off the lower ends of the levers which permits the wagon to pass from under the lifted rack or barge. At this time it will be noted that by reason of the levers *h* and links *g* resting in upright positions, the bars *f* with the rack or barge thereon will be maintained in one elevated position.

For the purpose of enabling an operator to conveniently lower the bars *f* and the rack or barge thereon when desired, I provide a hand lever M fulcrumed on the forward post of one of the side sections of the apparatus and connected through a link N with the bar *f* of said side section. With this lever the bars *f* and rack or barge thereon may obviously be slowly lowered so as to avoid injury to any of the parts.

When it is desired to use my novel apparatus to lift a box body from a wagon, I use two cross-bars P of the type shown in Fig. 4. One of these bars is placed against the forward end of the body and the other against the rear end of the body, and their hooks R are engaged with the bottom of the body. Then when the wagon is driven between the side sections A A' of the apparatus, the end portions of the bars P, which extend outward beyond the sides of the wagon body, assume positions on the bars *f* of the side sec-



tions, and the apparatus is operated as before described.

It will be gathered from the foregoing that the operation of my novel apparatus requires no effort on the part of the teamster or other person except when it is desired to lower the bars *f* and the load thereon through the medium of the lever *M*; also, that the apparatus is simple and inexpensive in construction, and is well adapted to withstand rough usage.

The construction herein shown and described constitutes the preferred embodiment of my invention, but it is obvious that in practice various changes in the form, construction and relative arrangement of parts may be made without involving departure from the scope of my invention as defined in the claims appended.

Having described my invention, what I claim and desire to secure by Letters-Patent, is:

1. In an apparatus for the purpose described, side sections comprising fixed frames, vertically and longitudinally movable bars, and vertically-swinging levers pivotally connected to the said frames and bars, sheaves connected with the rear portions of the frames, and cables passed around the sheaves and having forwardly extending portions for connection to the levers and other forwardly extending portions for connection to a wagon.

2. In an apparatus for the purpose described, side sections comprising fixed frames, vertically and longitudinally movable bars, and vertically-swinging levers pivotally connected to the said frames and bars, sheaves connected with the rear portions of the

frames, and cables passed around the sheaves and having eyes at one end of a size to loosely receive the lower ends of the levers; said cables being arranged to be connected at their opposite ends to a wagon.

3. In an apparatus for the purpose described, side sections comprising fixed frames, vertically and longitudinally movable bars, and vertically-swinging levers pivotally connected to the said frames and bars, sheaves connected with the rear portions of the frames, and cables passed around the sheaves and having eyes at one end of a size to loosely receive the lower ends of the levers and also having hooks at their opposite ends.

4. In an apparatus for the purpose described, side sections comprising fixed frames formed of posts and lower and upper bars fixed thereto, vertically and longitudinally movable bars arranged above the upper bars of the frames, links connecting the movable bars and the upper bars of the frame, and vertically-swinging levers pivotally connected to the said upper frame bars and the movable bar and extending below the former and above the latter, sheaves connected with the rear portions of the frames, cables passed around the sheaves and having eyes at one end and hooks at their opposite ends, and a lever fulcrumed on the frame of one side section and connected through a link with the movable bar thereof.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

LEVI R. SHELDEN.

Witnesses:

JOSEPH AUSTIN,  
CLEVELAND G. LASH.