W. STUEBING, JR.

TRUCK.

APPLICATION FILED AUG. 20, 1914.

1,160,666. Patented Nov. 16, 1915.

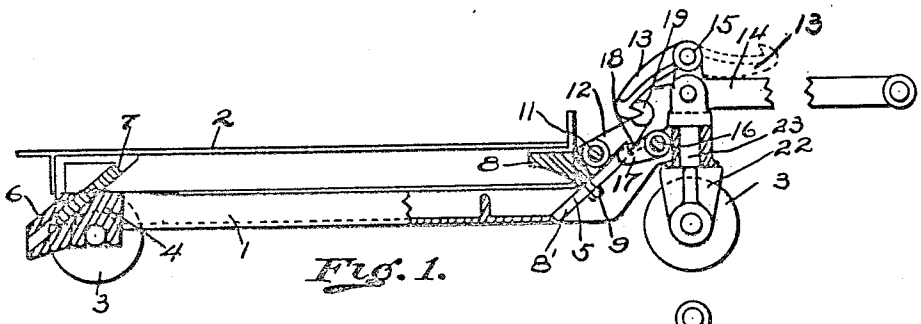


Fig. 1.

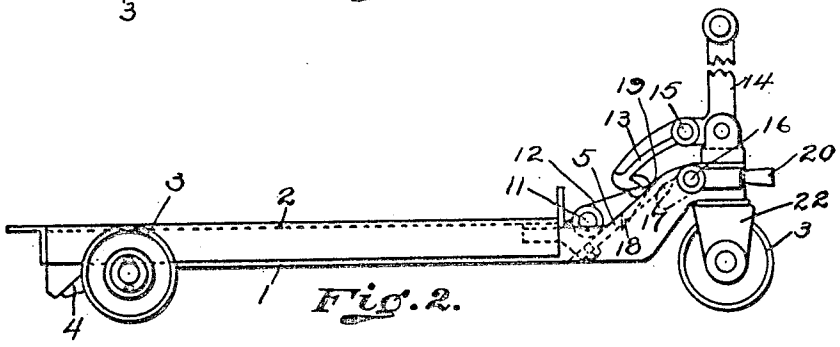


Fig. 2.

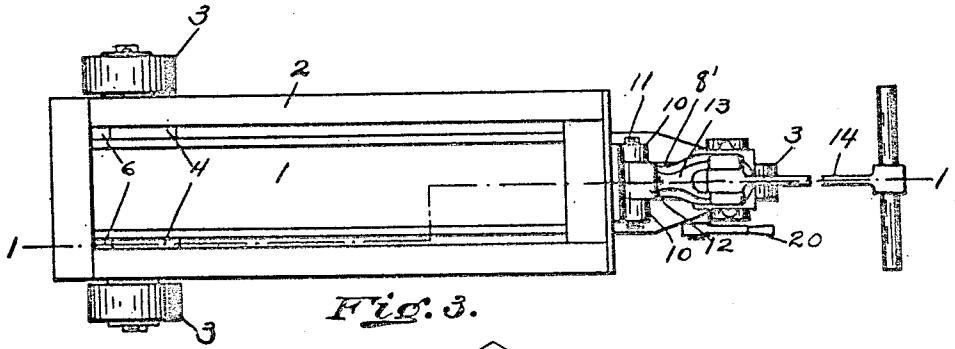


Fig. 3.

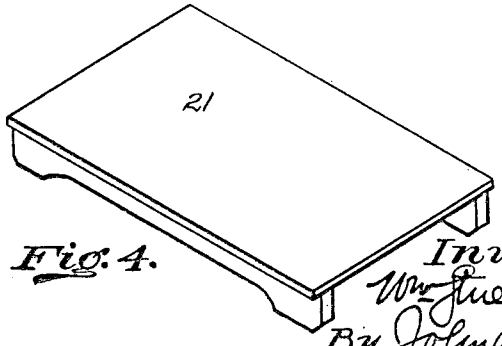


Fig. 4.

Witnesses
C. M. Halmuthak
L. M. Dunlap

Inventor
Wm. Stuebing Jr.
By John W. Freeli
Attorney

UNITED STATES PATENT OFFICE.

WILLIAM STUEBING, JR., OF CINCINNATI, OHIO, ASSIGNOR TO THE STUEBING TRUCK CO., OF CINCINNATI, OHIO, A CORPORATION OF OHIO.

TRUCK.

1,160,666. Specification of Letters Patent. Patented Nov. 16, 1915.

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To all whom it may concern:

Be it known that I, WILLIAM STUEBING, Jr., a citizen of the United States, residing at the city of Cincinnati, in the county of Hamilton and State of Ohio, have invented certain new and useful Improvements in Trucks, of which the following is a specification.

My invention belongs to that class of trucks in which powerful mechanical devices are employed to assist in lifting the load to be carried; thus the load can be readily loaded or unloaded; and in connection with which supplementary platforms are employed, which have been previously loaded or upon which goods have been placed regularly in the course or process of manufacture.

The object of my invention is to produce such a truck which shall be cheap of manufacture, simple in construction and highly efficient in use, which shall have less parts, will not readily get out of order and which shall have a higher lift than the trucks of this class.

It consists essentially in providing a frame or body portion and an elevating platform working up and down thereon, to lift or lower the load, a series of pawls and levers being the means for elevating and lowering the platform. The handle of the truck is so swiveled that it can be turned around in a circle, either when the truck is empty or loaded, so that the truck can be pulled at any angle. The handle must first be pulled down to raise the platform and put up to lower it, in order to force the operator to gain control of the load at all times, before raising or lowering the load. Its various features and advantages will readily become apparent from the following description.

In the accompanying drawing forming part of this specification, Figure (1), is a section on the line 1—1 of Fig. (3). Fig. (2), is a side elevation of the truck. Fig. (3), is a plan view thereof, and Fig. (4), is a view of one of the supplemental platforms used with the truck.

In carrying out my invention I provide a body or frame (1), made of any suitable form and material and a lifting platform (2), also made of any suitable form and material, the whole being mounted on wheels (3), two rear wheels and a single swiveled front wheel.

On the frame (1), at the rear, on each side, I provide an incline (4) and at front and end an incline (5). Along the inclines (4), on the frame (1), and parallel to the incline, I provide guide strips (6). On the platform (2), I provide inclines (7) adapted to engage and slide up and down on the inclines (4) and also be engaged by the guide strip (6) so as to keep the platform (2) in proper contact relation with the frame (1).

On the platform (2) at the front part thereof I place a block or incline (8) which engages incline (5) on frame (1). The incline (8) is held in operative position and alinement on incline (5) by a screw (9), which passes through a slot (8′) in incline (5) and then into the incline (8). The incline (8) is provided with two lugs (10), to which is secured, by a short shaft (11) a link hook, or pawl (12), adapted to be engaged by the pawl (13) which is pivotally mounted on the lever (14), at point (15).

Mounted on frame (1), on the short shaft (16), is a pawl (17), which is adapted to engage the tooth (18) on the pawl (12) when the platform (2) is in raised position. This shaft (16), (being the same shaft on which pawl (17) is mounted), also carries a short lever (20), which lever is used to release the pawl (17) from engagement with the tooth (18) of pawl (12), in order that the platform (2) may be lowered.

The front wheel (3) is mounted in a yoke (22), which is swiveled in the frame (1) by the swivel (23), so that the truck can be moved sidewise or other desired directions.

The handle (14) is fastened to the upper part of the swivel (23), making it possible to guide the front wheel (3), and thus, the truck. The handle being thus fastened in the upper part of the swivel renders said handle capable of describing the arc of a circle in the hands of the operator, as there is no hindrance or bar to said motion in this construction. This enables me to handle the truck with a maximum degree of efficiency, as I can turn it anywhere and in corners and small spaces, elevators, passageways and the like and force it to travel at any angle.

In using this style of truck, a multiplicity of auxiliary platforms (21) are used. The goods or articles are either placed on these platforms during the process of manufacture or when they are finished, or placed

thereon at any other time and are thus always ready to be trucked. The truck in a lowered position as shown in Fig. (2) is backed in under the platform (21) and if it is desired to raise the platform (21) and its load, in order to move it to any given point or place, the handle (14) is raised so that the pawl (13) is brought into engagement with the tooth (19) on pawl (12); when this takes place the handle is lowered or brought forward and this movement pulls the lifting platform (2) forward and upward on the inclines (4) and (5) until the pawl (17) engages the tooth (18) on pawl (12); the platform (2) is now up and the pawl (13) may be released leaving the platform in raised position as shown in Fig. (1).

In lowering the load or platform (2), it is necessary to first bring the handle down as shown in Fig. (1), thus allowing pawl (13) to engage the tooth (19) on pawl (12) and thus allowing pawl (17) to be released from contact with the tooth (18) on pawl (12), which is done by raising the lever (20), (which is on the same shaft (16) on which pawl (17) is mounted), and then, as the handle is raised, the load or platform (2) is lowered to normal position by the said platform (2) sliding down on the inclines (4) and (5).

When the platform (2) is elevated and held elevated by pawls (12) and (17), the pawl (13) is thrown back on the handle as shown by dotted lines in Fig. (1), thus forcing the operator to gain control of the load by dropping said pawl (13), if he desires to lower the platform (2).

While I have described one specific form and construction of my truck, it will readily become apparent that it is capable of considerable change and modification without departing from the spirit and principle of my invention, and I wish to be understood that such changes and modifications will still fall within the scope of my invention.

What I claim as new and my invention and desire to secure by Letters Patent is,

1. In a lifting truck, a lower frame, a lifting platform mounted on said lower frame and capable of moving up and down thereon, wheels at the rear of the lower frame and a wheel at the front connected by a swivel to the front end of said lower frame, a handle lever pivotally connected to said front wheel on the upper end of the swivel for raising and lowering the lifting platform, a pawl operatively connected to the handle lever so as to raise and lower the lifting platform when the handle lever is moved up and down by engaging said lifting platform, said handle lever and the front wheel capable of being revolved completely around on the swivel at the front end of the lower frame when the lifting platform is in an elevated or lowered position.

2. In a lifting truck, a lower frame, a lifting platform mounted on said lower frame and capable of moving up and down thereon, wheels at the rear of the lower frame and a wheel at the front connected by a swivel to the lower frame, a handle lever pivotally connected to said front wheel for raising and lowering the lifting platform, a pawl pivotally attached to the front of the lifting platform, a second pawl pivotally attached to the handle lever, said pawls adapted to be engaged by the movements of the handle lever to raise and lower the lifting platform, and manually operated means for disengaging said pawls.

3. In a lifting truck, a lower frame, a lifting platform mounted on said lower frame and capable of moving up and down thereon, wheels at the rear of the lower frame and a wheel at the front connected by a swivel to the lower frame, a handle lever pivotally connected to said front wheel for raising and lowering the lifting platform, a pawl on the front end of the lifting platform, a second pawl at the lower end of the handle lever, said pawl on the handle lever capable of engaging and being disengaged from the pawl on the lifting platform to elevate or lower the said lifting platform when the handle lever is lowered or raised, a pawl at the forward end of the lower frame capable of engaging the pawl on the lifting platform and holding said platform in elevated position, manually operated means for releasing said last named pawl for lowering the lifting platform, the handle lever and its wheel capable of being revolved entirely around when the lifting platform is in a lowered or raised position or the frame, and being independent of the raising and lowering means.

4. In a lifting truck, a lower frame, a lifting platform mounted on said lower frame and capable of moving up and down thereon, wheels at the rear of the lower frame and a wheel at the front connected by a swivel to the lower frame, a handle lever pivotally connected to said front wheel for raising and lowering the lifting platform and means operated by said handle lever for raising and lowering said lifting platform means for holding the lifting platform in its fixed, locked and elevated position, manually operated means for disengaging said locked platform, said handle lever being movable independently of said means and capable of being swung around in a complete circle together with the front wheel when the lifting platform is in a raised or lowered position.

5. In a lifting truck, a lower frame, a lifting platform mounted on said lower frame and capable of moving up and down

thereon, wheels at the rear of the lower frame and a wheel at the front connected by a swivel to the lower frame, a handle lever pivotally connected to said front wheel for raising and lowering the lifting platform, and means operated by said handle lever for elevating and lowering said lifting platform, means for holding the lifting platform in an elevated position, means for releasing said platform from its elevated position, said handle lever movable independently of said means and being free to be revolved entirely around to the right or left carrying the front wheel with it when the lifting platform is in a lowered or elevated position.

6. In a lifting truck, a lower frame, a lifting platform mounted on said lower frame, and capable of moving up and down thereon, wheels at the rear of the lower frame and a wheel at the front connected by a swivel to the lower frame, a handle lever pivotally connected to said front wheel for raising and lowering the lifting platform, and means operated by said handle lever for elevating and lowering said lifting platform, means for holding the lifting platform in its elevated position, and means for releasing the said holding means so that the lifting platform may be lowered, the handle lever capable of being revolved entirely around, carrying the front wheel with it, said handle lever being free to be moved up and down at any time during its revolution.

7. In a lifting truck, a lower frame having forward and rear wheel members, a lifting platform mounted on said lower frame, and capable of moving up and down thereon, the forward wheel member connected by a swivel to the front part of said lower frame, a handle lever for raising and lowering the lifting platform, said handle lever being pivotally connected to the upper end of the swivel, and means operated by said handle lever for elevating and lowering said lifting platform, the handle lever capable of being entirely revolved around, carrying the front wheel member with it, said handle lever being free to be moved up and down at any time during its revolution.

8. In a lifting truck, a lower frame having forward and rear wheel members, a lifting platform mounted on said lower frame, and capable of moving up and down thereon, the forward wheel member connected by an upright swivel to the front part of said lower frame, a handle lever for raising and lowering the lifting platform, said handle lever being pivotally connected to the upper end of the swivel, and means operated by said handle lever for elevating and lowering said lifting platform, the handle lever capable of being entirely revolved around, carrying the front wheel member with it, said handle lever being free to be moved up and down at any time during its revolution, the swivel and wheel remaining in the same vertical position at all times during the elevating or lowering of the lifting platform.

9. In a lifting truck, a lower frame having forward and rear wheel members, a lifting platform mounted on said lower frame, and capable of moving up and down thereon, the forward wheel member connected by a swivel to the front part of the said lower frame, a handle lever for raising the lifting platform, said handle lever being pivotally connected to the upper end of the swivel, and means operated by said handle lever for elevating the lifting platform, means for locking the lifting platform in its elevated position, and means for releasing the lifting platform from its locked position in order that the lifting platform may be lowered, the handle lever capable of being revolved around in a circle, carrying the front wheel member with it, said handle lever capable of being moved up and down during its revolution.

In testimony whereof I have hereunto signed my name this 14th day of August 1914, at Cincinnati, Hamilton county, Ohio.

WM. STUEBING, Jr.

In presence of—
SYLVIA WAUSBECHER,
WALTER C. STUEBING.

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