No. 878,751. PATENTED FEB. 11, 1908.

J. SCHREIBER.

TRUCK.

APPLICATION FILED JAN. 31, 1907.

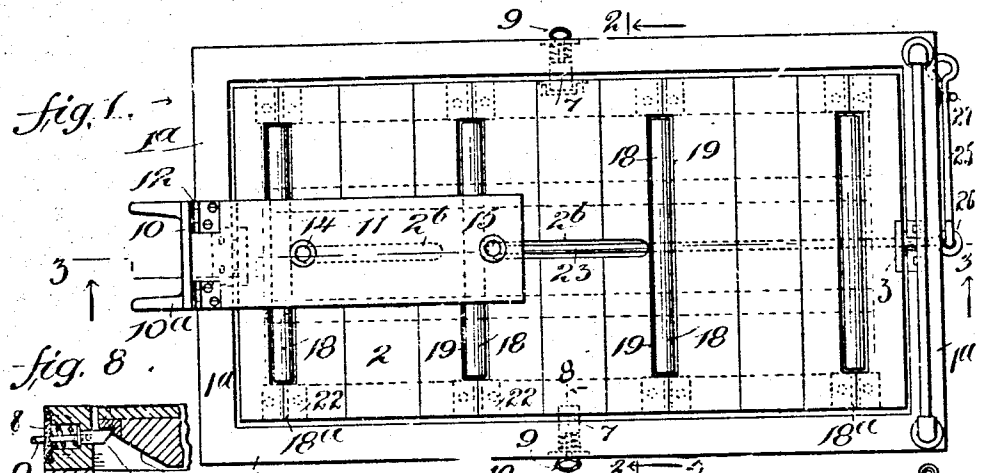


fig. 1.

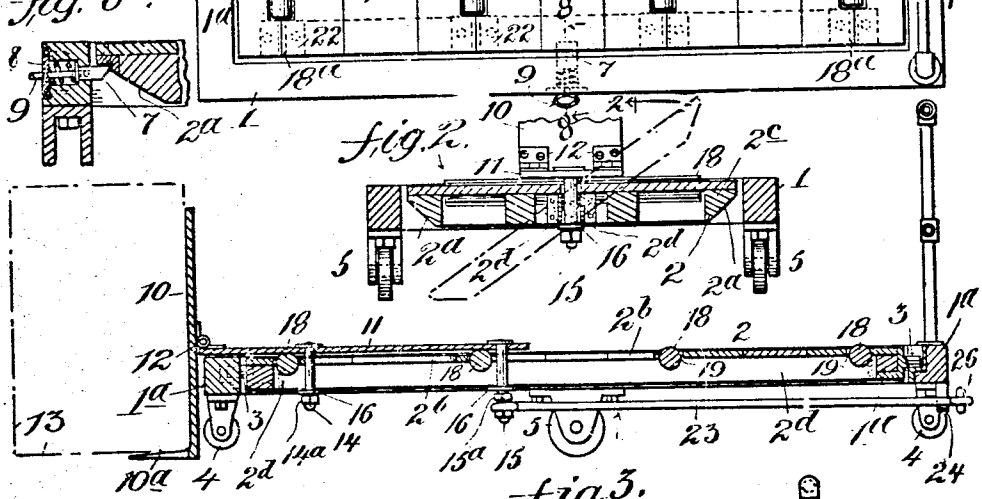


fig. 2.

fig. 3.

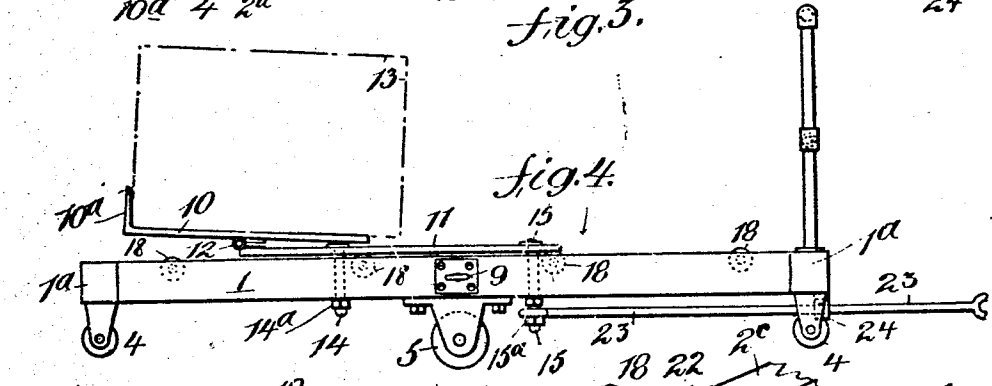


fig. 4.

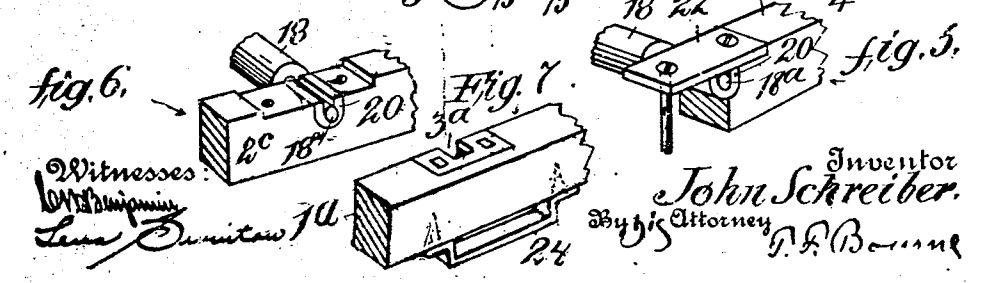


fig. 5.

fig. 6.

Fig. 7.

Witnesses:

Inventor

John Schreiber.

By his Attorney

UNITED STATES PATENT OFFICE.

JOHN SCHREIBER, OF JERSEY CITY, NEW JERSEY.

TRUCK.

No. 878,751. Specification of Letters Patent. Patented Feb. 11, 1908.

Application filed January 31, 1907. Serial No. 355,000.

To all whom it may concern:

Be it known that I, JOHN SCHREIBER, a citizen of the United States, and resident of Jersey City, Hudson county, New Jersey, have invented certain new and useful Improvements in Trucks, of which the following is a specification.

The object of my invention is to provide improved means to permit the ready application of boxes, barrels etc., upon, and their removal from, trucks used in stores, warehouses and other places for moving goods from place to place, and the invention comprises a truck provided with a pivotal or tilting package holder adapted to lie over the truck, and also to swing upwardly at one end of the truck, and means for permitting said package holder to slide back and forth upon the truck, whereby when a package is on the floor and the truck moved close thereto with the package holder disposed against the side of the package and partly beneath the same the package may be readily swung over upon the truck and then slid thereon, and when a package is upon the package holder on the truck, the package may be readily slid off the truck, the fulcrum or pivotal point of the package holder serving to aid in applying the package to and removing it from the truck.

I have shown my improvements as applied in connection with a truck of the class shown in Letters Patent granted to me April 3, 1906, No. 816,825, and my present improvements are shown applied on and connected with a movable platform within the truck frame, whereby the package holder may be moved inwardly upon the movable platform, so as to swing therewith within the outer truck frame, and whereby the package holder may be slid from the movable platform over one end of the truck frame to be tilted for receiving and discharging packages.

The invention also comprises the novel details of improvements that will be more fully hereinafter set forth and then pointed out in the claims.

Reference is to be had to the accompanying drawings forming part hereof, wherein

Figure 1 is a plan view of a truck embodying my improvements, Fig. 2 is a cross section on the line 2, 2, in Fig. 1, looking in the direction of the arrows, Fig. 3 is a longitudinal section on the plane of the line 3, 3, in Fig. 1, looking in the direction of the arrows, Fig. 4 is a side elevation of the truck showing the package holder located over the same, Figs. 5 and 6 are detail views of bearings for the rollers of the movable platform, Fig. 7 is a detail of one end of the truck frame, and Fig. 8 is a detail section on the line 8, 8, in Fig. 1.

Similar numerals of reference indicate corresponding parts in the several views.

In the example of my improvements shown in the accompanying drawings the numeral 1 indicates a truck frame made of suitable side bars, shown in rectangular form, open centrally to receive the swinging platform or frame 2, which is supported by pivots 3, so as to tilt within the main frame, the pivots 3 being shown disposed in bearings 3^a carried by the end bars 1^a of frame 1. The side and end bars of the main frame may be composed of wood or metal and may be braced at the corners, and said frame is shown provided with rollers or casters 4 at the ends, and preferably will have rollers or casters 5 between the ends, but extending lower than the rollers 4 to permit the truck to be readily swung around a floor and moved thereover without interference by the rollers 4. Between the main frame 1 and the movable platform or frame 2 I provide one or more locks adapted to hold the platform horizontally within frame 1 and preferably so that the upper surface of platform 2 and frame 1 will be substantially flush, which lock devices are shown in the form of bolts 7 having springs 8 to push them under the platform, and with an eye or handle 9 to permit withdrawal of the bolts.

The above named parts may all be, generally, substantially the same as shown in my patent above named. For the purpose, however, of permitting the platform 2 to tilt at a greater angle to the floor than is shown in my said patent I incline the outer longitudinal edges of the platform in downwardly converging lines at 2^a (Fig. 2), as by cutting away the material at the lower edges of the longitudinal side bars 2^c of the platform, whereby the package resting upon the platform may be tilted to a greater angle than where the side bars of the platform are left rectangular as shown in my said patent.

At 10 is a tilting package holder adapted to overlie the truck and slide thereover, and said holder is shown pivotally connected with a slide or plate 11, as by suitable hinge connections 12, and the holder 10 at its outer end has one or more projections or fingers 10^a adapted to slide under the package 13

(see Fig.). The slide or plate 11 is slidably held upon the platform of the truck, for which purpose I have shown said platform provided with slots 2^b receiving studs or bolts 14, 15, rigidly attached to and depending from slide 11, and shown provided with means, such as washers 16 bearing on adjacent abutments 2^d beneath the platform and held by nuts 14^a, 15^a, to movably retain slide 11 in position upon the platform and keep it from tilting thereon. Thus, when the plate or slide 11 is pushed to the left in the drawings it will carry the package holder 10 to the other end or margin of the truck frame, so that it may swing upwardly, as shown in Fig. 3, to receive a package against the same, and said holder may be swung substantially parallel with the truck and drawn in over the same when slide 11 is pushed along the truck, as in Fig. 4. To permit the plate or slide 11, and also the package upon the truck, to more readily slide thereon I provide rollers 18 disposed transversely of the truck, which are shown set in recesses 19 in platform 2 and provided with trunnions or pivots 18^a, shown journaled in suitable bearings 20 in the side bars 2^c of platform 2, and provided with removable plates 22 to hold trunnions 18^a in their bearings and permit removal of the rollers if necessary.

To permit the plate or slide 11 to be conveniently manipulated from the end of the truck opposite the delivery end I have shown a rod 23 movably connected with stud 15 and passing forwardly beneath the truck frame, the free end of said rod being held in a suitable keeper 24 on cross bar 1^a of the truck frame, and in order that said rod 23 will not project unduly far beyond the front of the truck and yet permit said rod to be pushed back as required, I have shown an extension or arm 25 pivotally connected with rod 23, as by eyes at 26, whereby the extension 25 may be swung sidewise and supported upon a suitable hook or the like 27 carried by the truck frame.

With my improvements, when a box, barrel or other package is to be placed upon the truck the plate or slide 11 is pushed to carry one end to the end or magin of the truck, so that the package holder 10 may swing upwardly beyond the truck and its projection 10^a may then be placed under the package, as in Fig. 3, and then the package is swung over toward the truck, upon the pivotal point 12 as a fulcrum which assists the swinging of the package from the floor to a plane above the truck and partly thereon, and then slide 11 with the package holder 10 and the package are pushed over upon the truck, or the rod 23 may be pulled for the purpose, the rollers 18 aiding the travel of the package along the truck. When the package is to be unloaded from the truck the slide 11 and its package holder 10 with a package thereon are slid to the end of the truck and then the package is tilted over the end of the truck, the package holder 10 swinging on the fulcrum 12 and thus assisting in discharging the package upon the floor, and then the truck and its package holder may be drawn away from the package.

When my improvements are applied in connection with a truck having a tilting or swinging platform as shown in the drawings, the package may be placed upon and removed from the truck in the manner above described, and when the platform is to be tilted, as in dotted lines in Fig. 2, within the open space within truck frame 1 the platform will be swung upon its pivots 3, the package will be inclined in front of the operator for packing or unpacking the same, and the package holder 10 by being drawn back within the space within frame 1 of the truck will not interfere with the tilting of the platform 2, and the package may remain in relative position with respect to the package holder 10.

It will be understood that my improvements are equally applicable on a truck having a rigid top or platform as well as one having a tilting or movable platform, for in either case the slide and package holder assist in applying packages upon or removing them from a truck.

Having now described my invention what I claim is:—

1. The combination of a truck having a plurality of rollers journaled transversely of the platform thereof and projecting slightly above the surface of the platform, with a slide movably mounted thereon and adapted to bear on said rollers and provided with a package holder movably connected with the slide adapted to swing in an upward direction relatively to the slide at the margin of the truck to which said slide is moved and to overlie the truck when drawn back, said package holder having an upwardly extending projection at its outer end to pass under a package when swung down.

2. The combination of a truck having a plurality of rollers journaled transversely of the platform thereof and projecting slightly above the surface of the platform, with a slide, means for movably supporting the slide upon the truck, said slide being adapted to bear on said rollers and to extend near the margin of the truck, and a package holder pivotally connected with the slide and adapted to swing over the margin of the truck to which the slide is moved in an upward direction when the slide is pushed outwardly and arranged to overlie the truck when the slide is moved inwardly over the truck, said package holder having an upwardly extending projection at its outer end to pass under a package when swung down.

3. The combination of a truck having a

platform provided with transversed recesses, rollers journaled at their ends and projecting through said recesses slightly above the surface of the platform, with a slide, means to guide the slide on the truck and prevent the slide from rising, said slide being adapted to travel on said rollers and to extend near the margin of the truck, and a package holder pivotally supported between its ends adjacent the end of said slide and adapted to extend in an upward direction at the margin of the truck to which the slide is moved to receive a package, said package holder being arranged to overlie the truck when the slide is moved inwardly along the truck, said package holder having an upwardly extending projection at its outer end to pass under a package when swung down.

4. The combination of a truck provided with a slot, with a slide mounted upon the truck and having a projection passing through said slot, means to permit said projection to slide through the slot and to prevent the projection from rising from the slot, and a package holder pivotally connected with the end of the slide and adapted to extend in an upward direction at the end of the truck when the slide is moved outwardly along the truck and arranged to overlie the truck when the slide is moved inwardly thereon.

5. The combination of a truck, with a slide mounted thereon, means to movably hold the slide upon the truck, a package holder pivotally connected with the slide to extend upwardly at the margin of the truck when the slide is moved outwardly, a rod connected with the slide and provided with a jointed extension and means for supporting said rod and extension upon the truck.

6. The combination of a truck, with a slide, means for movably supporting the slide upon the truck, and a package holder pivotally connected between its ends with the end of the slide so that a portion of said holder may overlie the slide and a portion project beyond the same, said holder having a projection at its outer end to engage a package whereby the package holder may extend upwardly when pushed beyond the truck and may overlie the truck when the slide is drawn inwardly.

7. The combination of a truck provided with a frame having an open unobstructed inner space, with a movable platform of less area than said space pivotally supported within said frame adapted to swing within and through said space, with a package holder, and means for movably and pivotally supporting the package holder upon said platform so that the package holder may slide over a cross bar of said frame and extend in an upward direction beyond said frame, said package holder being arranged to swing within the inner space of the truck frame when the platform is swung on its pivots.

8. The combination of a truck provided with a frame having an open unobstructed inner space, with a movable platform of less area than said space pivotally supported within said frame adapted to swing within and through said space, a slide movably supported upon said platform, and a package holder pivotally connected with said slide adapted to extend upwardly when pushed over to the margin of the truck.

9. The combination of a truck provided with a frame having an open unobstructed inner space, with a movable platform of less area than said space pivotally supported within said frame adapted to swing within and through said space, with a slide mounted upon said platform and adapted to slide over a bar of said truck frame, a package holder pivotally connected with said slide and adapted to partially overlie the same and to extend in an upward direction when moved beyond the truck frame, and means to keep said slide upon said platform and prevent the slide from rising therefrom.

10. The combination of a truck provided with a frame having an open unobstructed inner space, with a movable platform of less area than said space pivotally supported within said frame and adapted to swing within and through said space, said platform being provided with a slot, a slide mounted to move upon the platform and provided with an extension passing through said slot, means to hold said extension from rising through said slot, and a package holder pivotally connected with said slide and adapted to extend in an upward direction at the margin of the truck when pushed beyond the same.

11. The combination of a truck provided with a frame having an open unobstructed inner space, with a movable platform of less area than said space pivotally supported within said frame and adapted to swing within and through said space, said platform being provided with a slot, a slide mounted to move upon the platform and provided with an extension passing through said slot, means to hold said extension from rising through said slot, a package holder pivotally connected with said slide and adapted to extend in an upward direction at the margin of the truck when pushed beyond the same, and a rod connected with a slide and extending to the forward end of the truck to enable said slide to be moved along the platform.

12. The combination of a truck provided with a frame having an open unobstructed inner space, with a movable platform of less area than said space pivotally supported within said frame and adapted to swing within and through said space, said platform being provided with a slot, a slide mounted to move upon the platform and provided with

an extension passing through said slot, means to hold said extension from rising through said slot, a package holder pivotally connected with said slide and adapted to extend in an upward direction at the margin of the truck when pushed beyond the same, a rod connected with a slide and extending to the forward end of the truck to enable said slide to be moved along the platform, said rod having a jointed extension, and means for movably supporting said rod and extension.

13. The combination of a truck provided with a frame having an open unobstructed inner space, with a movable platform of less area than said space pivotally supported within said frame and adapted to swing within and through said space, the side bars of said platform on opposite sides having downwardly converging outer faces for the purpose substantially as specified.

JOHN SCHREIBER.

Witnesses:
T. F. BOURNE,
LENA SWINTON.