Feb. 14, 1939. C. M. AULT 2,147,076

TRUCK

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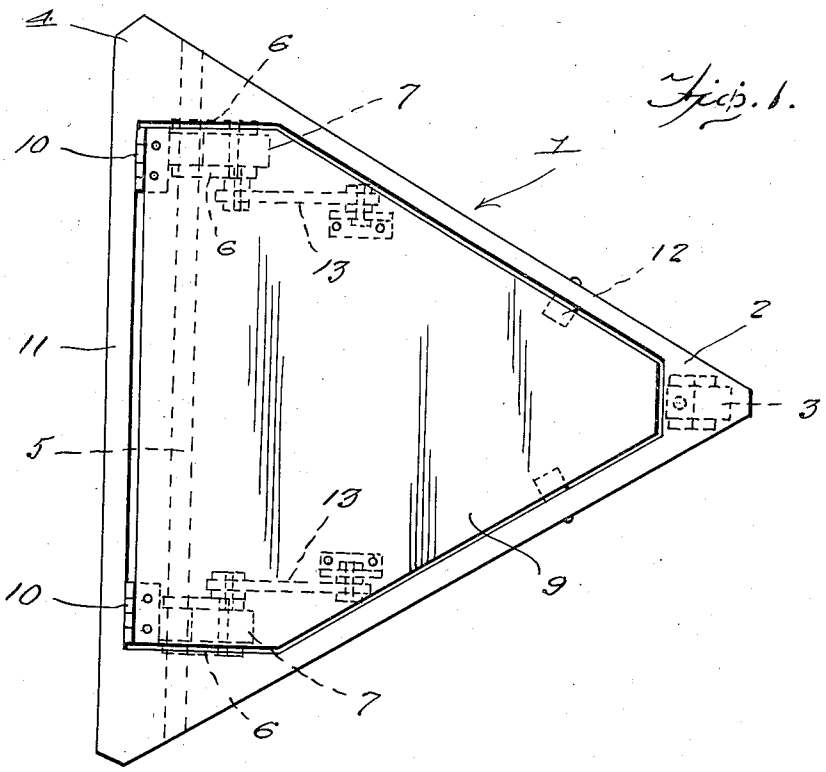
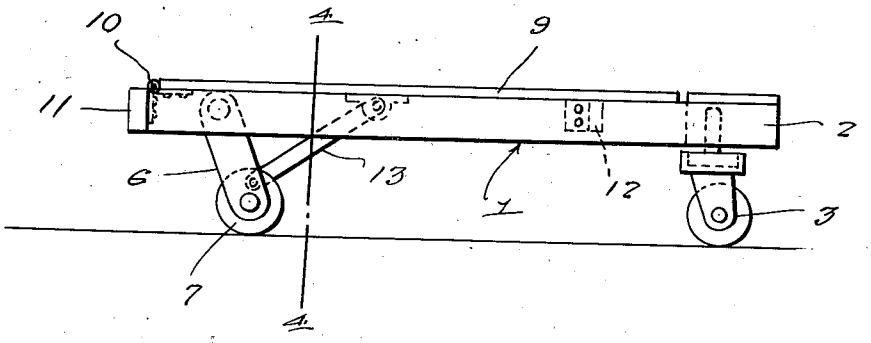


Fig. 1.

Fig. 2.



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Fig. 3.

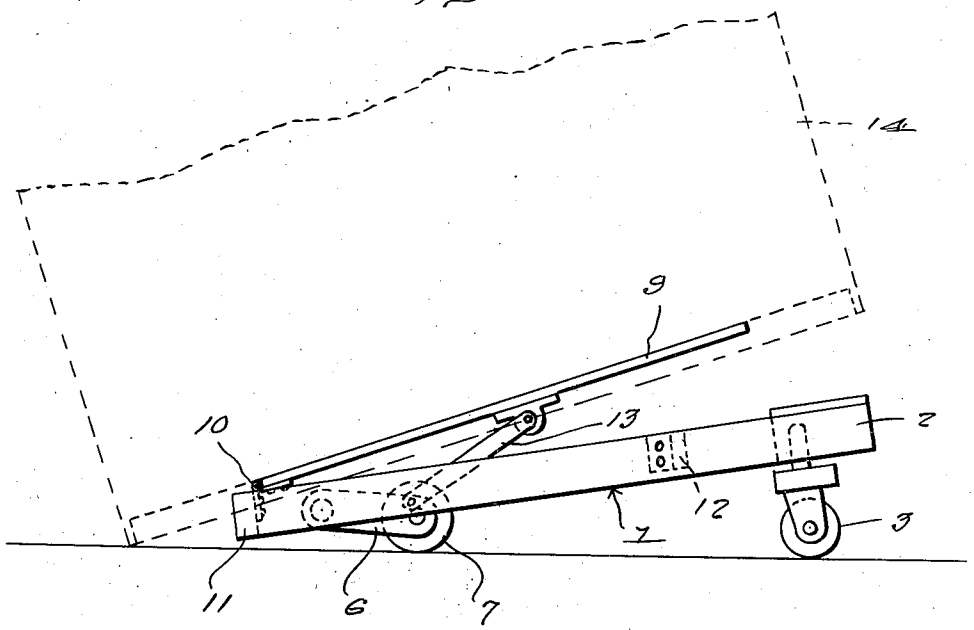
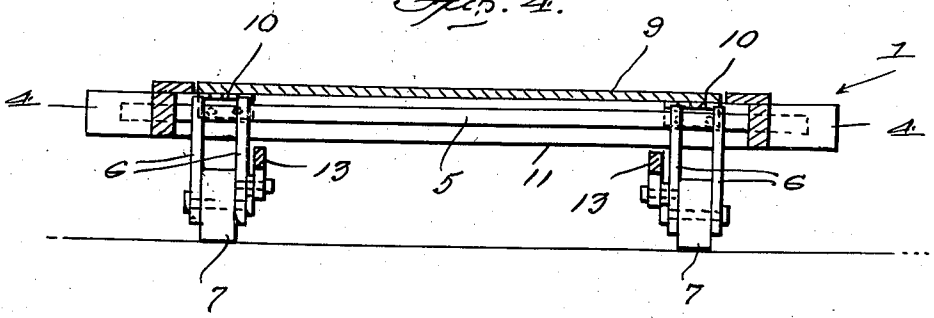


Fig. 4.



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UNITED STATES PATENT OFFICE

2,147,076

TRUCK

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Application April 7, 1938, Serial No. 200,772

5 Claims. (Cl. 280—44)

The present invention relates to new and useful improvements in trucks to facilitate the handling of drums or barrels, boxes, crates and other comparatively heavy objects and has for its primary object to provide, in a manner as hereinafter set forth, a device of this character embodying a novel construction, combination and arrangement of parts through the medium of which the load may be expeditiously lifted and lowered with a minimum of effort.

Other objects of the invention are to provide a truck of the aforementioned character which will be comparatively simple in construction, strong, durable, highly efficient and reliable in use, compact, light in weight and which may be manufactured at low cost.

All of the foregoing and still further objects and advantages of the invention will become apparent from a study of the following specification, taken in connection with the accompanying drawings wherein like characters of reference designate corresponding parts throughout the several views, and wherein:

Figure 1 is a top plan view of an embodiment of the invention.

Figure 2 is a view in side elevation thereof.

Figure 3 is a side elevational view, showing the truck in use.

Figure 4 is a vertical sectional view, taken substantially on the line 4—4 of Fig. 2.

Referring now to the drawings in detail, it will be seen that the embodiment of the invention which has been illustrated comprises a substantially triangular frame of suitable metal which is designated generally by the reference numeral 1. The rear corner portion 2 of the frame 1 is supported on a conventional caster wheel 3. Journalled in the front corner portions 4 of the substantially triangular frame 1 is a transverse shaft 5. Pairs of arms 6 are fixed on the end portions of the shaft 5. Journalled between the pairs of arms 6 are wheels 7 which support the front of the frame 1.

The reference numeral 9 designates a plate of suitable material, preferably metal, which is hingedly connected, as at 10, to the front portion 11 of the frame 1 for swinging movement in a vertical plane. As illustrated to advantage in Fig. 1 of the drawings, the plate 9 is also substantially triangular and conforms to the upper portion of the frame 1. When in lowered position the free rear end of the substantially triangular plate 9 is adapted to be supported on brackets 12 which are provided therefor in the frame 1. Links 13 connect the arms 6 to the hinged plate 9 for actuation thereby. In Fig. 3 of the drawings, the reference numeral 14 designates an oil drum of the usual form being loaded on the truck.

It is thought that the operation of the device will be readily apparent from a consideration of the foregoing. When an oil drum, for example, is to be loaded on the truck, said drum is tipped to an inclination of approximately 25 degrees and as the truck is pushed therebeneath, as illustrated in Fig. 3 of the drawings, the front portion of the frame swings downwardly on the wheels 7, thus raising the plate 9 through the medium of the links 13. The drum 14 is then lowered onto the frame 1. When this is done the plate 9 is forced downwardly onto the frame 1 by the weight of the drum, thus swinging the wheels 7 downwardly through the medium of the links 13 thereby elevating the front of the truck with the drum thereon. Of course, when the drum is to be unloaded the foregoing operation is substantially reversed. Although the device is intended for use particularly in the handling of drums, barrels, crates, etc., it may obviously be used for the handling of any other heavy objects for which it may be found adapted and desirable.

It is believed that the many advantages of a truck constructed in accordance with the present invention will be readily understood and although a preferred embodiment of the device is as illustrated and described, it is to be understood that changes in the details of construction and in the combination and arrangement of parts may be resorted to which will fall within the scope of the invention as claimed.

What is claimed is:—

1. A truck comprising a frame, supporting wheels mounted for swinging movement on said frame, a plate constituting a base hingedly mounted on the frame and engageable beneath an object to be moved for actuation thereby, and means operatively connecting the swinging wheels to said plate for raising and lowering the frame when said plate is actuated.

2. A truck comprising a frame, arms mounted for swinging movement on the frame, supporting wheels journalled on said arms, a plate constituting a base hingedly mounted for swinging movement on the frame and engageable beneath an object to be moved for actuation thereby, and links operatively connecting the arms to the plate for raising and lowering the frame when said plate is actuated on its hinges.

3. A truck comprising a frame, a shaft journalled on said frame, arms fixed on said shaft, supporting wheels journalled on the arms, a

plate constituting a base hingedly mounted on the frame and engageable beneath an object to be moved for actuation thereby, and means operatively connecting the arms to the plate for actuation thereby for raising and lowering the frame when said plate is actuated.

4. A truck comprising a substantially triangular frame, supporting wheels for a portion of the frame mounted for swinging movement thereon, a substantially triangular plate constituting a base hingedly mounted on the frame and engageable and operable by an object to be moved on the truck, and means operatively connecting the supporting wheels to said plate for actuation thereby for raising and lowering the frame when said plate is actuated.

5. A truck of the class described comprising a substantially triangular frame, a caster wheel mounted beneath the rear portion of said frame, a transverse shaft journalled in the front portion of the frame, pairs of arms fixed on said shaft, supporting wheels journalled between the pairs of arms, a substantially triangular plate hingedly connected to the front portion of the frame and engageable beneath an object to be moved, and links operatively connecting the arms to said plate for actuation thereby for raising and lowering the front portion of the frame when said plate is swung on its hinges.

CLIFFORD M. AULT.