Sept. 18, 1956 B. O. A. OLSSON 2,763,388

TRUCKS FOR HANDLING CONCRETE AND LIKE CONTAINERS

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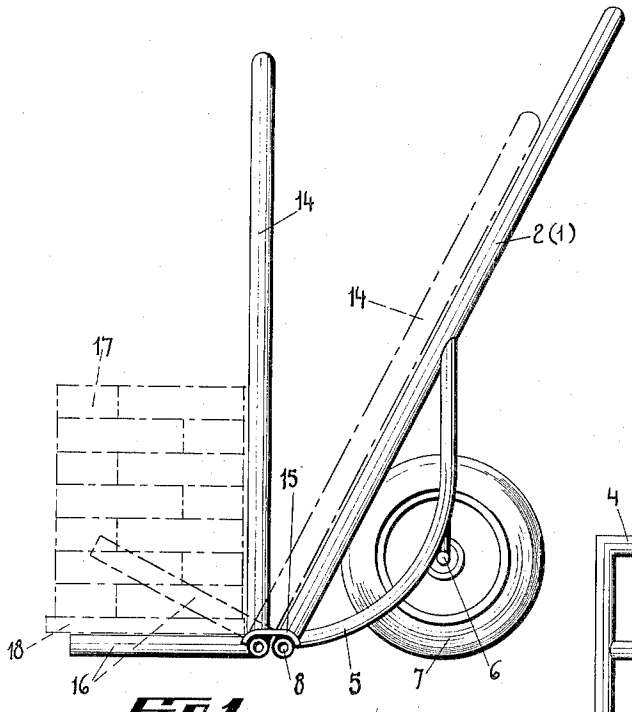

Fig. 1.

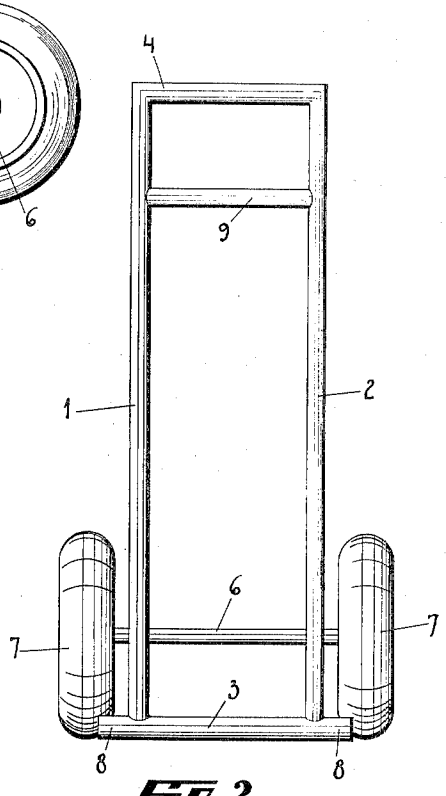

Fig. 2.

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Fig. 4.

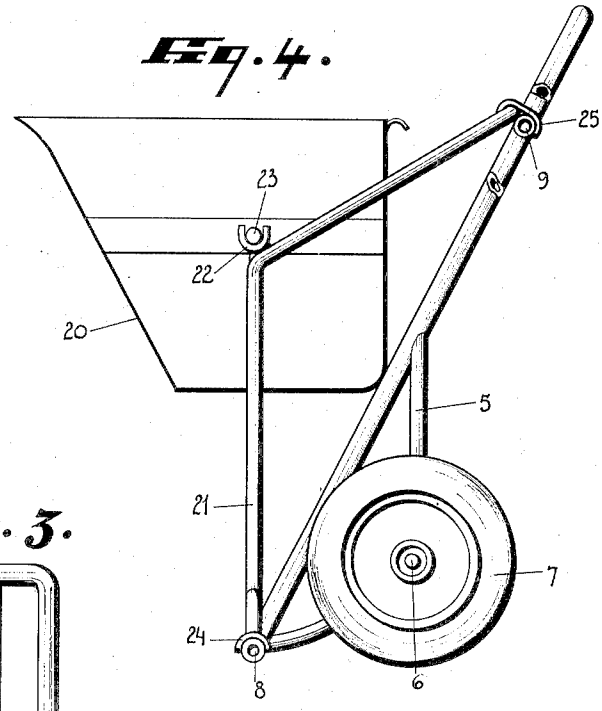
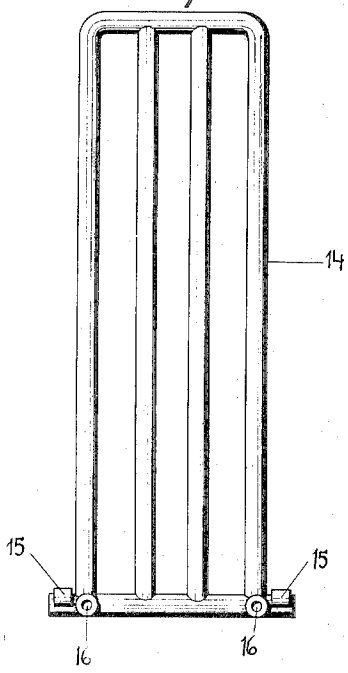


Fig. 3.



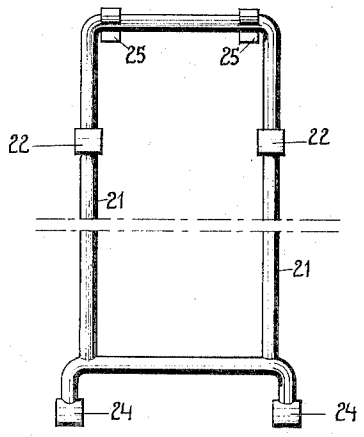


Fig. 5.

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TRUCKS FOR HANDLING CONCRETE AND LIKE CONTAINERS

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Application July 6, 1953, Serial No. 366,275

2 Claims. (Cl. 214—384)

The present invention refers to trucks for handling concrete and like containers and stacks of bricks or the like comprising an elongated, rectangular main frame carried by two wheels, in combination with two alternative auxiliary frames each adapted to be detachably engaged with the wheeled main frame, and in which one of said auxilary frames (intended for the stacks of bricks or the like) is rectangular and of the same length and width as the wheeled main frame and provided with two arms projecting substantially perpendicularly from the auxiliary frame and intended to carry a supporting plate for the stacks of bricks or the like, and wherein the side pieces of the other auxiliary frame which is intended to carry the concrete or like container) are angular.

The object of the invention is to provide a truck of the kind referred to which is simple in construction and easy to handle.

The invention is broadly characterized in that the end piece of the wheeled main frace located nearest the wheels is provided with two end portions projecting beyond the side pieces of the said frame, and that the two auxiliary frames are provided with downwardly open claws adapted to engage said end portion, the angular side pieces of the auxiliary frame intended for carrying the concrete or like container being provided near the angle with upwardly open cradles for the reception of lugs or pintles projecting out from the concrete or like container, the said last-mentioned auxiliary frame being provided at the end opposite to the claws with hooks intended to be hooked on to a crossbar of the wheeled main frame.

In the accompanying drawings there is shown by way of example an embodiment of the invention, and in said drawings:

Figure 1 is a side elevation of a truck fitted with an auxiliary frame for carrying a stack of bricks;

Figure 2 is a view from the left of the truck shown in Figure 1 (without the auxiliary frame);

Figure 3 shows the auxiliary frame seen from the left of Figure 1;

Figure 4 is a side elevation of the truck fitted with the other auxiliary frame carrying a concrete container; and

Figure 5 shows said auxiliary frame seen from the left of Figure 4.

In the drawings 1 and 2 designate the side pieces of an elongated rectangular main frame, the end pieces of which are designated by 3 and 4, respectively. To the frame there are permanently secured two curved pieces 5 which carries an axle 6 on the ends of which there are journalled two wheels 7. The lower end piece 3 located nearer the wheels projects by its end portions 8 somewhat beyond the side pieces 1 and 2, and near the upper end piece 4 the frame is provided with a cross bar 9.

The auxiliary frame 14 for carrying bricks, as shown

in Figures 1 and 3, is enlongated and has substantially the same length and width as the wheeled main frame 1—4. This auxiliary frame provided near one of its ends with two hooks 15 intended to be detachably hooked on to the projecting end portions 8 of the main frame piece 3, and also with two arms 16 projecting at right angles to the plane of the said auxiliary frame and intended to be inserted under a plate 18 (Figure 1) on which the bricks 17 are stacked.

When using the truck for transporting bricks the projecting ends 8 are brough under the hooks 15 of the frame 14, whereupon, after the frame 14 (and the stack of bricks carried by it) has been tilted to the position shown in broken lines in Figure 1, the truck itself is swung to a position in which the centre of gravity of the load is directly over the axle 6, so that the truck may be comfortably wheeled.

The auxiliary frame for transporting a concrete container 20 and shown in Figures 4 and 5 is likewise elongated, but its side pieces 21 are bent to form an angle as shown in Figure 4. Both side pieces 21 are provided each with a bearing cradle 22 located near their bends, in which cradles the container is suspended by means of lugs or pintles 23 projecting from the sides of the container. The last-mentioned auxiliary frame is provided at one of its ends with two semi-circular claws 24 intended to engage the ends 8 of the main frame piece 3, and at the opposite end with two hooks 25 intended to be hooked on the cross bar 9. The whole is so designed that in wheeling position of the truck the centre of gravity of the load as before is directly over the axle 6, so that the truck can be comfortably wheeled.

What I claim is:

1. A hand truck for pivotally transporting a container comprising in combination an elongated rectangular main frame including a plurality of spaced apart lateral member connecting longitudinal members, an elongated rectangular auxiliary frame having a pair of end members joined by a pair of side members, said side members being similar and each being bent at a medial portion thereof providing an angular configuration for said side members, a plurality of claws carried by an end member of said auxiliary frame being detachably and pivotally mounted on a lateral member of said main frame, a pair of hooks carried by a further end member of said auxiliary frame engaging on a further lateral member of said main frame detachably connecting said frames, with said auxiliary frame side members extending from said main frame, cradles mounted on said auxiliary frame side members adjacent the medial bent portion thereof, a container having stub axles pivotally and detachably mounted in said cradles and wheels rotatably connected to said main frame for movably supporting the same.

2. A hand truck as claimed in claim 1 wherein a pair of curved supports are each connected to an end portion of one of said main frame longitudinal members and extend therefrom in a direction substantially opposite to said auxiliary side members, an axle having said wheels rotatably mounted thereon connects said supports and extends laterally thereof.

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