May 31, 1927. 1,630,975

I. R. SMITH

WHEELBARROW

Filed Oct. 26, 1925

Fig. 1

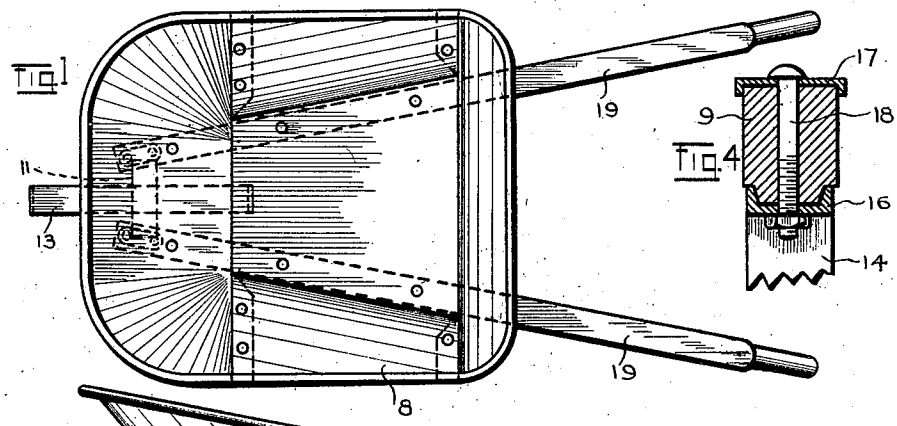


Fig. 4

Fig. 2

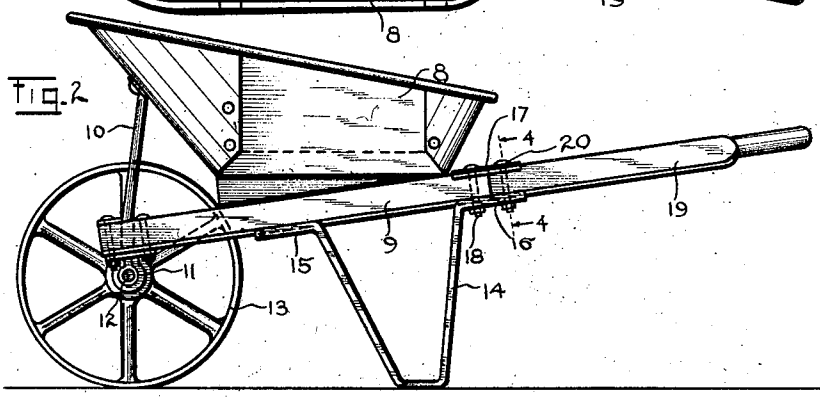
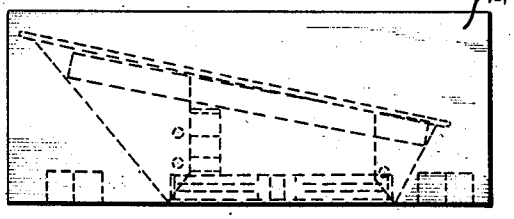


Fig. 3



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UNITED STATES PATENT OFFICE.

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WHEELBARROW.

Application filed October 26, 1925. Serial No. 64,863.

This invention relates to improvements in wheelbarrows, and more particularly to a knock-down or sectional wheelbarrow.

It is one of the objects of the present invention to provide a wheelbarrow suited for home or garden use and arranged for the ready detachment and attachment of the handles, wheel and other units to permit the packing of the wheelbarrow in a small compact box or container for shipment.

A further object of the invention is to provide a wheelbarrow arranged for the removal of all of the constituent elements from the hopper whereby the hopper may be packed in a carton or box of minimum size with the remaining wheelbarrow elements within the hopper and unoccupied portions of the carton.

A further object of the invention is to provide a sectional wheelbarrow, which when assembled, is strong and efficient in operation.

A further object of the invention is to provide a sectional wheelbarrow of the class described which is of very simple construction, is strong and durable, is easily assembled and disassembled, is conveniently packed, and is well adapted for the purposes described.

With the above and other objects in view the invention consists of the improved sectional wheelbarrow and its parts and combinations as set forth in the claims and all equivalents thereof.

In the accompanying drawing in which the same reference characters indicate the same parts in all of the views:

Fig. 1 is a plan view of the improved wheelbarrow;

Fig. 2 is a side view thereof;

Fig. 3 is a view of a carton showing the manner in which the wheelbarrow is packed therein when disassembled; and

Fig. 4 is a sectional view taken on line 4—4 of Fig. 2 and on a larger scale.

Referring now more particularly to the drawing it will appear that the numeral 8 indicates the hopper or body of the wheelbarrow, which is preferably formed of sheet metal, and is supported upon a pair of longitudinally extending arms 9. A pair of forward supports 10 depend from the front portion of the hopper and are bolted to the forward end portions of the arms 9. Said arms also have bolted to their lower surfaces bearing members 11 in which an axle 12 is journaled, said axle carrying a wheel 13.

A pair of legs 14, of substantially U formation are provided to support the wheelbarrow in a horizontal position and said legs engage the under surfaces of the arms 9. As will be seen the legs are channeled and the forward flanged channeled portions 15 firmly engage the arms while the rear flanged channeled portions 16 extend beyond the ends of the arms. Channeled plates 17 are provided for the upper portions of said arms and said plates project outwardly evenly with said flanged portions 16. Bolts 18 are passed through said arms, the plates and the portions 16 of the legs to removably secure the legs to the arms, while arm extension members or handles 19 have their inner end portions clamped between the extending portions of the plates and flanged portions 16, bolts 20 being passed therethrough to provide removable attaching means.

To disassemble the wheelbarrow it is merely necessary to remove the bolts 18 and 20 which permit the detachment of the handles 19 and the legs 14. The hopper 8 can then be removed from the members 9 by unbolting the braces 10 and the bearing members 11 can likewise be unbolted to permit the removal of the axle and wheel. In this manner the wheelbarrow can be separated into a number of smaller, easily packed units.

As was mentioned the sectional construction of the wheelbarrow makes it well suited for convenient packing and shipment. For this purpose an ordinary carton 21 of suitable size may be used and the position the separated wheelbarrow units occupy therein is clearly illustrated in Fig. 3. The hopper, of course, fills most of the carton and the wheel axle, bearings, plates, nuts and bolts, and other small parts can be disposed within the hopper. The handles, arms, and legs may be conveniently fitted into other unoccupied portions of the carton.

From the foregoing description it will be seen that the improved sectional wheelbarrow is of very simple and novel construction, and is well adapted for the purposes set forth.

What I claim as my invention is:

1. A sectional wheelbarrow, comprising a pair of arms, a hopper removably mounted

thereon, a bearing member removably bolted to the forward end portion of each of said arms, an axle journaled in said bearing members, a wheel carried by said axle, a pair of legs engaging said arms and having flanged end portions extending beyond the extremities of said arms, plates engaging said arms and extending beyond the extremities of the same, bolts engaging said plates, arms, and the flanged end portions of said legs, handles engaged by the projecting portions of said plates and leg flanges, and bolts engaging the handles, plates and leg flanges.

2. A sectional wheelbarrow, comprising a pair of arms, a hopper removably mounted thereon, a wheel removably secured to and depending from the forward portions of said arms, a pair of legs engaging said arms and having flanged end portions extending beyond the extremities of said arms, plates engaging said arms and extending beyond the extremities of the same, members engaging said plates, arms, and the flanged end portions of said legs, handles engaged by the projecting portions of said plates and by the leg flanges, and members engaging the handles, plates and leg flanges.

In testimony whereof, I affix my signature.

IRVING R. SMITH.