(No Model.)

W. BENJAMIN.

WHEELBARROW.

No. 349,681. Patented Sept. 28, 1886.

Fig. 1.

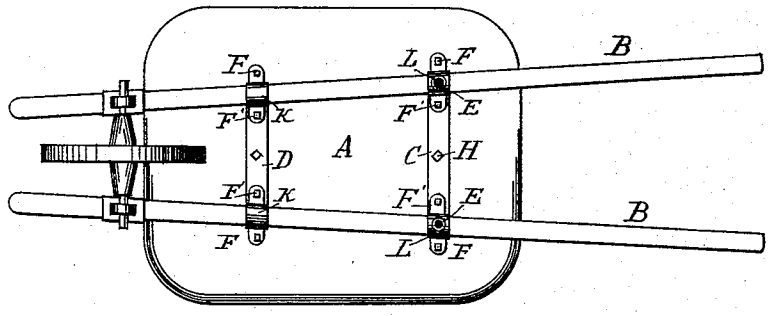


Fig. 2.

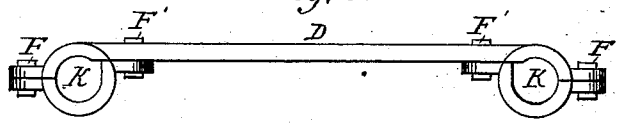
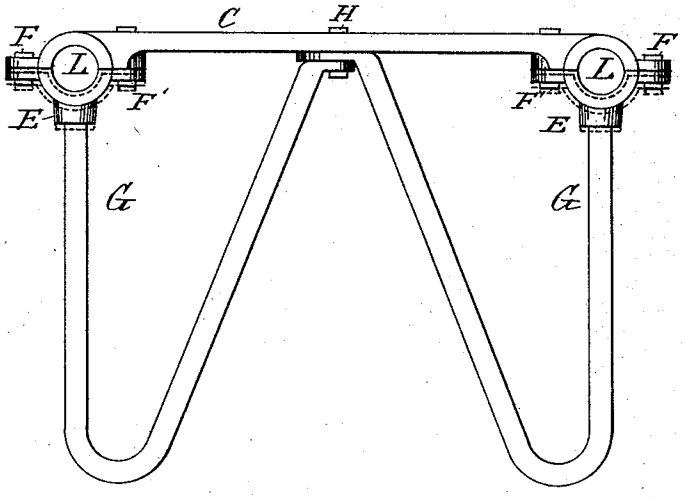


Fig. 3.



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WHEELBARROW.

SPECIFICATION forming part of Letters Patent No. 349,681, dated September 28, 1886.

Application filed January 22, 1884. Serial No. 118,289. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM BENJAMIN, a citizen of the United States, residing at Brooklyn, in the county of Kings and State of New York, have invented a new and useful Improvement in Metal Wheelbarrows, of which the following is a specification.

My invention relates to wheelbarrows made of metal; and my object is to make a wheelbarrow that is strong and durable, and that is easily put together and easily taken apart.

I am aware that wheelbarrows made of metal having tubular handles or sides are not new; but where such handles are fastened to the tray by clips the bolts or rivets holding the clip soon enlarge the holes in the tray through which they pass, or split the bottom of the tray by the springing of the handles, thus allowing the parts to separate. Where cross-bars are used that necessitate making a hole in the tubular sides or handles, the pipe or tube is very much weakened, and soon breaks at the hole. Where cross-bars are used that have an eye on each end that are fastened by shrinking them onto the sides or handles, such cross-bars cannot be taken off the handles to ship the barrow without destroying the cross-bars.

By my invention, as hereinafter described, the wheelbarrow can be readily taken apart for shipment, and as readily put together, forming a rigid substantial barrow.

In the accompanying drawings, Figure 1 is a view of the wheelbarrow from the under side. Fig. 2 is an elevation of the front cross-bar. Fig. 3 is an elevation of the back cross-bar and legs.

Similar letters refer to similar parts throughout the several views.

The tray A is formed in any of the prevailing styles, and the handles or sides B of the frame are made of tubes. The front cross-bar, D, is a flat piece of metal, having eyes K at each end, as shown at Fig. 2, which eyes K encircle the tubular handles B. The eyes K are of nearly the same diameter internally as the external diameter of the tube handles, and each eye is made in two parts, which parts are secured together by bolts F F', as shown.

The eyes K and L, in the construction illustrated, are composed of the cross-bars and movable portions or clips, which may be pressed toward the cross-bars and there held, each by one or more bolts, to clamp the side bars in place. The part of the clips or eyes K and L that encircle the side bars or handles B must be formed somewhat smaller than the outside diameter of the handles B, so that when the bolts are screwed together they will draw the eyes tightly around the handles, thus making a rigid and substantial frame with or without the tray. The back cross-bar, C, is also made of flat or bar iron, having an eye, L, at each end, of the form shown at Fig. 3. The eyes L are made in two parts, and are secured to each other by the bolts F F'. On the under part or half of the eyes L a socket, E, is formed on each, as shown at Fig. 3, into which socket the legs G are inserted, while the other ends of the legs are held to the cross-bar by the bolt H. If holes are made in the bottom of the tray in proper position to correspond with the holes in the cross-bars C and D, the tray will be a templet to put the whole wheelbarrow together by.

The barrow can be put together very expeditiously by inserting the bolts F' into the holes in the bottom of the tray made to receive them, and through the holes in the brace C D. Then lay the handles B in place, the other parts of the eyes K L having the bolts F' through all. The bolts F' will fasten the tray and eyes together. Then, if the bolts F are inserted and screwed together, the eyes K L will rigidly clasp and clamp the handles B.

I am aware that clips and clamping-eyes have been used in various situations, and I make no claim to such devices otherwise than as specifically applied by me.

I am aware that a wheelbarrow-frame composed of two side bars and two cross-bars provided with eyes which fit upon the side bars and shrink thereon, as shown and described in the Patent No. 246,584, have been made; but

What I claim as my invention is—

1. In a wheelbarrow, the combination, with the metal tray, of the cross-bars C D, for supporting and strengthening the bottom of the same, and the side bars or handles, B, the cross-bars being provided with eyes of adjust-

able size, and bolts by which said handles may be detachably clamped therein, substantially as set forth.

2. The herein-described frame for a wheelbarrow, consisting of the front and rear cross-bars, C D, for supporting and strengthening the bottom of the tray, the substantially parallel side bars or handles, B, the cross-bars being provided with eyes of adjustable size for the reception of the handles, and bolts for detachably clamping the handles therein, substantially as set forth.

WILLIAM BENJAMIN.

Witnesses:
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