(No Model.) 2 Sheets—Sheet 1.

J. & R. BEAN.

WHEELBARROW.

No. 301,473. Patented July 8, 1884.

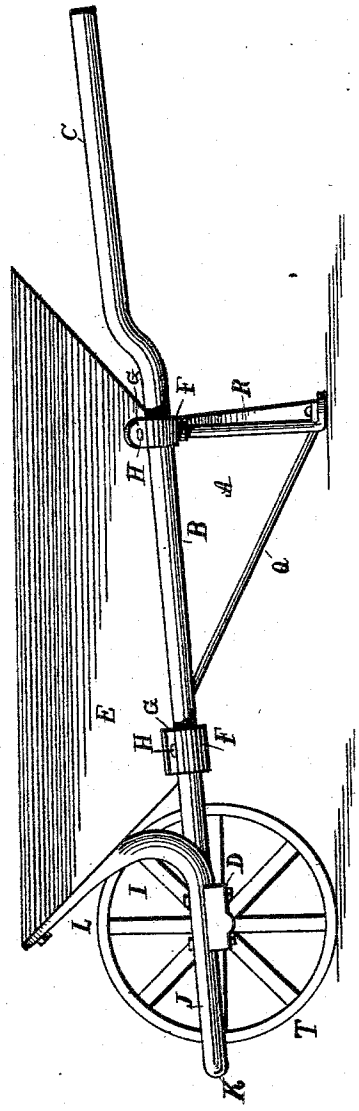


Fig. 1.

WITNESSES
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(No Model.) 2 Sheets—Sheet 2.

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WHEELBARROW.

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Fig. 2.

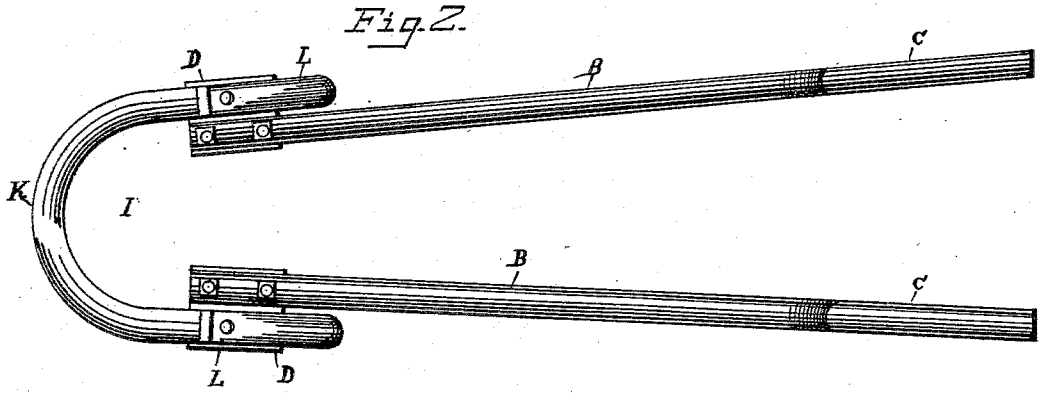
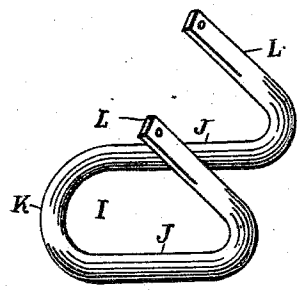


Fig. 3.



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UNITED STATES PATENT OFFICE.

JOHN BEAN AND ROSCOE BEAN, OF SPRINGFIELD, OHIO, ASSIGNORS TO THE TRICYCLE MANUFACTURING COMPANY, OF SAME PLACE.

WHEELBARROW.

SPECIFICATION forming part of Letters Patent No. 301,473, dated July 8, 1884.

Application filed February 5, 1884. (No model.)

To all whom it may concern:

Be it known that we, JOHN BEAN and ROSCOE BEAN, citizens of the United States, residing at Springfield, in the county of Clark and State of Ohio, have invented certain new and useful Improvements in Wheelbarrows, of which the following is a specification, reference being had therein to the accompanying drawings.

This invention relates to certain new and useful improvements in wheelbarrows; and it has for its object to provide combined means for supporting and bracing the forward portion of the tray or body, for bracing and preventing the twisting and warping of the side beams or tubes of the frame relatively with each other, and for relieving the wheel of weight while in the act of dumping the load.

In carrying out the object of our invention we employ and rigidly mount upon the wheel-shaft a brace whose outer or forward portion extends beyond and encircles the wheel, while the rear portions thereof are bent or curved upwardly and forwardly, terminating in a plane coincident with the under side of the front piece of the tray or body, to which they are secured, the rigidity inherent in the nature of the said brace acting positively against lateral displacement and relative twisting or warping of the respective side beams.

In the accompanying drawings, forming a part of this specification, and on which like letters of reference indicate corresponding features, Figure 1 represents a side elevation of our improved wheelbarrow; Fig. 2, a plan view of the frame and brace with the tray detached, and Fig. 3 a detached perspective view of the brace.

The letter A refers to the frame of our improved wheelbarrow, the same being essentially constructed of metallic tubes or pipes, the side beams or pieces, B, terminating at one end in handles C, and at the other are mounted upon and secured to the shaft-boxes D. These boxes are preferably somewhat elongated, so as to form a longer bearing for the side pieces and the brace, to be presently described, the result of which is to accomplish greater rigidity of the frame.

The letter E designates the tray or body, which is constructed of sheet metal by preference, and secured to the side pieces by means of the couplings F, fitted on the said pieces, and provided with lugs G, through which and the tray are placed bolts or rivets H. The body is of flaring form, and the forward end extends over the wheel, and in order to be strong and lasting should be provided with a support or brace. The letter I refers to this brace, the same being also, by preference, constructed of pipe, and consisting of the side portions, J, bolted or otherwise firmly secured to the boxes D, the forward curved portion, K, which extends beyond and encircles the wheel, and the rear portion, which terminates in upwardly and forwardly curved or bent ends L. These ends form supports for the adjacent part of the tray, to which they are secured by means of rivets or bolts, the pipe being usually collapsed at these points, so as to present a flat surface to the tray to facilitate in making the connection. It is noticeable that this brace forms, also, a continuation of the side pieces, and, owing to the elongated character of the boxes D and the inherent rigidity of the stock from which the brace is constructed, the liability of the side pieces of the frame to twist and depart from the same plane is effectually obviated, and a frame entire produced which shall be capable of withstanding hard usage. The legs are braced by the rods Q, and the bars or straps R secured respectively to the tray.

Having thus fully described our invention, what we claim as new, and desire to secure by Letters Patent, is—

1. In a wheelbarrow, a brace distinct from the frame, having a rigid and elongated connection with the frame, a portion partially encircling the wheel, and portions forming a support for the forward part of the tray or body.

2. In a wheelbarrow, a brace having side pieces adapted to be connected to the frame, a portion adapted to partially encircle the wheel, and portions forming upwardly and forwardly curved supports for the tray or body.

3. In a wheelbarrow, a tubular brace having side pieces adapted to be rigidly connected to the frame, a portion adapted to partially encircle the forward part of the wheel, and portions forming upwardly and forwardly curved supports for the tray or body, said latter portions being flattened.

4. In a wheelbarrow, the combination, with

the side pieces and the elongated shaft-boxes secured thereto, of the brace rigidly connected to said side pieces by means of said boxes, having a portion which partially encircles the wheel, and portions which form upwardly and forwardly curved supports for the tray or body.

In testimony whereof we affix our signatures in presence of two witnesses.

JOHN BEAN.
ROSCOE BEAN.

Witnesses:
A. D. SEFFEL,
EDWIN BRADFORD.