

(No Model.)

J. OTTO.
WHEELBARROW.

No. 469,265.

Patented Feb. 23, 1892.

Fig. 1.

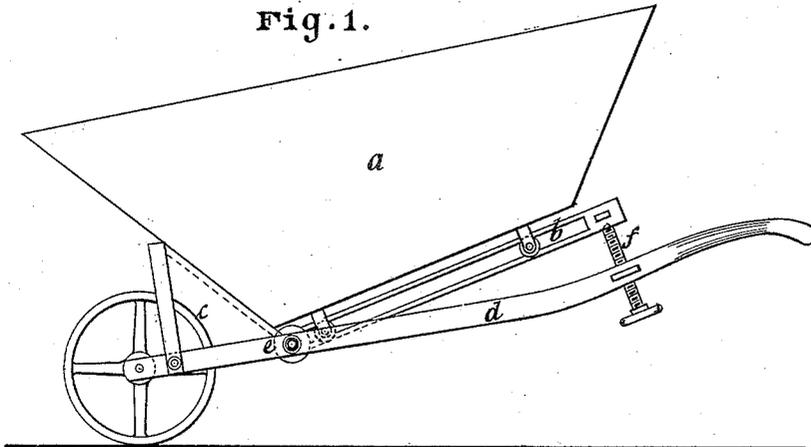


Fig. 2.

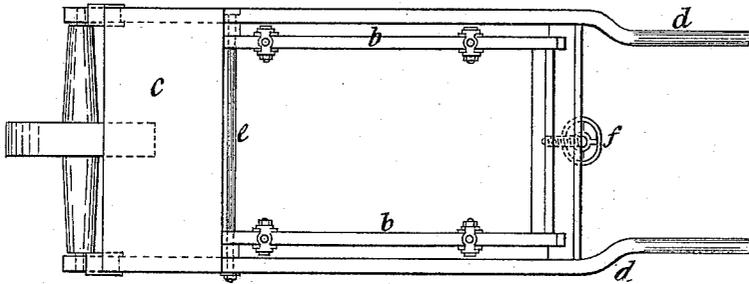


Fig. 3.

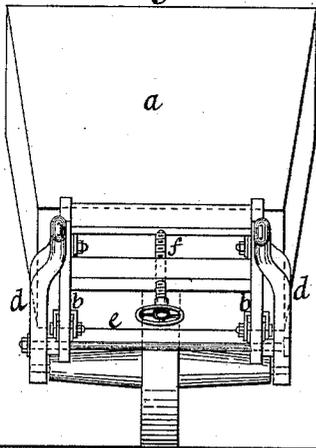
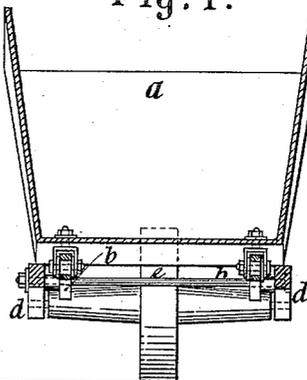


Fig. 4.



Witnesses:

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UNITED STATES PATENT OFFICE.

JOHANNES OTTO, OF KALTWASSER, GERMANY.

WHEELBARROW.

SPECIFICATION forming part of Letters Patent No. 469,265, dated February 23, 1892.

Application filed October 6, 1891. Serial No. 407,850. (No model.)

To all whom it may concern:

Be it known that I, JOHANNES OTTO, a subject of the King of Prussia, residing at Kaltwasser, Prussia, German Empire, have invented certain new and useful Improvements in Hand-Carts, Wheelbarrows, and the Like, of which the following is a description.

My invention relates to hand-carts, wheelbarrows, and similar vehicles; and it consists in the devising of means whereby the center of gravity will be placed in the most favorable position, so that the smallest possible amount of exertion on the part of the workman will be required. I attain this purpose by making the body of the vehicle movable, to which end I arrange it on an inclined plane in the manner hereinafter described, and shown in the annexed drawings, illustrating a wheelbarrow embodying my invention.

Figure 1 is a side view of the same; Fig. 2, a plan view; Fig. 3, a front view, and Fig. 4 shows a vertical section.

a is the body of the wheelbarrow, and is supported by the inclined plane, which can be moved at one end up and down by the screw *f*. This inclined plane consists of two slotted bars *b b*, connected by two cross-stays and swinging on axis *e*, supported between the beams *d d* of the wheelbarrow. The body *a* is mounted on rollers *g*, running in the slots of the bars *b b* and thus supported by said bars. It is obvious that as soon as the work-

man lifts the wheelbarrow by the handles *h* at the end of the beams *d* the movable body will run down as far as possible until it is stopped by the suitable front piece *c*. In this manner the center of gravity is placed in the most favorable position and the lever to which the power is applied is as long as possible, so that the workman is enabled to move a much heavier load than with the common wheelbarrow. This arrangement can of course be applied to all other vehicles where the best position of the center of gravity may be obtained by making the body of the cart movable.

Having now described my invention, what I claim, and desire to secure by Letters Patent of the United States, is—

In wheelbarrows and similar vehicles, the arrangement of a movable body carrying the load on an inclined plane swinging on an axis supported between the beams, and which inclined plane is moved up and down by a screw, as *f*, said body of the cart being mounted on rollers, substantially as shown and described.

In testimony whereof I hereunto sign my name, in the presence of two subscribing witnesses, this 7th day of September, 1891.

JOHANNES OTTO.

Witnesses:

WALDEMAR BARTSOH,
RUDOLPH SCHRODER.